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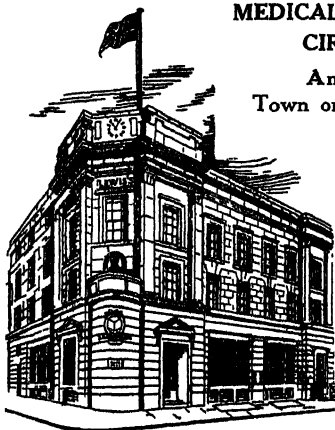
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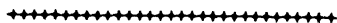
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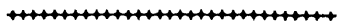
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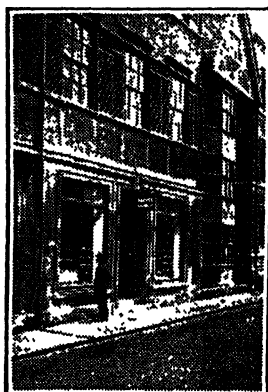
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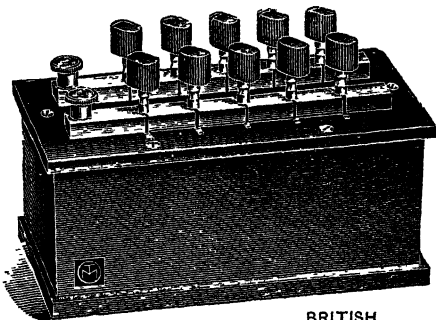
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THE YEARBOOK OF THE  
UNIVERSITIES OF  
THE EMPIRE

1933

EDITED BY  
SIR H. FRANK HEATH  
GBE, KCB.

PUBLISHED FOR  
THE UNIVERSITIES BUREAU  
OF THE BRITISH EMPIRE  
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## PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in the affairs of any except their own, the Calendars sufficed; but there are now 70,\* and each takes a growing interest in the others. The Calendars constitute a library of no mean dimensions and hardly anywhere except at the Universities Bureau are they all accessible. Much of their contents is of strictly local interest. Moreover, they are not arranged on a uniform system while the *Yearbook* is. An attempt is made to select from them such information as is likely to prove of interest to members of other Universities and Colleges, to Government Departments, Clubs, school-masters, and the public generally. It would be impossible to present a conspectus of this kind in a volume of manageable dimensions without resorting to the use of abbreviations and other devices for saving space. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

In chapters introductory to the sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa, and of India, is collected information regarding their history, regulations, and practice. The introductory chapters on South Africa and India have been revised and brought up to date this year, as those on Canada and Australia in the two previous issues. Each section comprises three parts:

(1) A directory of the officers and members of the staff of the University. The Editor has in the main to rely for the accuracy of this list upon the officials of the several Universities and Colleges who assist him by sending in annual corrections, but an attempt has been made, by a study of announcements made in the public press, in University Gazettes

\* Exclusive of St. David's College, Lampeter, Victoria University, Toronto, now amalgamated with the University of Toronto, and the Hebrew University, Jerusalem, in the Mandated Territory of Palestine.

and the like, to bring the list, so far as possible, up to date at the time of going to press. The other sections under the various institutions deal with the academic year 1931-32 or (in the case of those south of the equator) with the calendar year 1931, since the academic year runs in these Universities from March to November or December. The Directory gives the degrees held by the teachers as well as the University by which they were granted. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving.

With the exception of honours conferred by H.M. the King, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess.

(2) Under the heading "General Information" an account is given of the equipment of libraries, museums, laboratories, etc., of the university, the degrees, diplomas, and certificates which it confers, its composition fees, scholarships, etc., residential accommodation, extra-mural work, publications, etc.

(3) Reports of events of outstanding interest which occurred during the past academic year follow. They include statistics of the numbers of students in attendance and the degrees conferred.

The Appendices include: (a) Summaries of regulations for the diplomas of the Medical Colleges and other Associations and Institutions of the United Kingdom, and the conditions governing admission to various professions and careers for which university studies are a fitting preparation; (b) qualifications for admission to a first degree in the Univs. of Gt. Britain and Ireland; (c) lists of open post-graduate scholarships, fellowships, and grants for research available in the Empire and abroad to British subjects; \* (d) lists of centres of scientific research and, of scientific information, whether connected with the universities or not, with information as to the admission of independent research workers. These last particulars are not available in any other publication, and the Universities Bureau believes that in view of the great development that has taken place of recent years in research throughout the Empire, and the growing interest shown in it by all classes, particularly by University students, the publication of these appendices will be helpful, especially to those living in the Dominions and Colonies overseas.

Appendix XXII. collects for the first time in one place on a uniform system information hitherto contained in Appendices XX. and XXI. and in paragraphs dealing with admission previously given under the

\* Post-graduate scholarships and fellowships open only to graduates of particular universities will be found under the head of each university in the main part of the book.

several Universities of Gt Britain and Ireland. The information has been rearranged in order that the rather complicated conditions of admission to the Universities may be more easily ascertained. The several sections were submitted to the Universities and Examining Boards concerned. The difficulty of publishing a really up-to-date list of Universities and other Institutions approved by the Association of American Universities, with information as to libraries, nos of students, etc., has proved to be insurmountable, and the list in Appendix XXVI. has accordingly been confined to the names of the 34 principal Universities in the U.S.A., together with references to the sources of information in respect of the remainder. Appendix XXX. gives a short list of books on the Universities of this country, and particulars of publications dealing with holiday courses and the exchange of students.

The General Index includes a series of references which will enable the reader to find the information formerly collected in a special Appendix (Professional Schools, Specialist Studies, etc.).

The Memorandum and new Articles of Association of the Universities Bureau, together with the names of the representatives of the member Universities, are included in this volume for convenience of reference (pp. xv-xxix below).

In conclusion, the Universities Bureau acknowledges gratefully the ungrudging help afforded by the official Registrars and other correspondents in the Universities. This help gives the book an authoritative character to which it could not otherwise pretend.

H. F. H.

Universities Bureau of the British Empire,

88A Gower Street, London, W.C.1.

*March 1933.*





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## QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES REFERRED TO IN THE YEARBOOK BY LETTERS AFTER NAMES

*For initial letters of titles of degrees vide p. 10.*

[See also lists of medical qualifications in Appendix XI. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained. N.B.—The letters used in the *Yearbook* are not in all cases those authorized by the Associations; e.g., M Inst C.E. is sometimes abbreviated to M.I.C.E., M I Mech.E to M.I.M.E., F.Inst.P to F.I.P.]

A.C.A.	Associate of Institute of Chartered Accountants.
A.C.G.I.	City and Guilds of London Institute.
A.C.I.S.	Chartered Institute of Secretaries.
A.I.C.	Institute of Chemistry.
A.K.C.	King's College.
A.L.S.	Linnaean Society.
A.M.C.	Art Master's Certificate.
A.R.A.M.	Associate of Royal Academy of Music.
A.R.C.A.	College of Art
A.R.C.M.	Music.
A.R.C.O.	Organists.
A.R.C.S.	Science.
A.R.C.S.I.	Science, Ireland.
A.R.E.	Society of Painter Etchers.
A.R.I.B.A.	Institute of British Architects.
A.R.S.M.	School of Mines.
A.R.T.C.	Technical College, Glasgow.
A.R.W.S.	Society of Painters in Water-Colours.
A.T.I.	Textile Institute.
C.A.	Chartered Accountant.
C.A. Aust.	Chartered Accountant of Australia.
C.B.E.	Commander Order of British Empire.
C.D.A.	College Diploma in Agriculture.
C.D.H.	Horticulture.
C.G.	Croix de Guerre.
C.G.I.	City and Guilds Institute.
Chev. Lég. d'H.	Chevalier de la Légion d'Honneur.
Dip. d'E.S.	Diplôme d'Etudes Supérieures.
Dip.T.C.	Diploma of the Technical College, Zürich.
D.I.C.	Diploma of Imperial College of Science and Technology.
D.M.R.E.	in Medical Radiology and Electrology.
D.O.M.S.	in Ophthalmic Medicine and Surgery.
D.P.H.	in Public Health.
D.P.M.	in Psychological Medicine.
D.S.C.	Distinguished Service Cross (Naval).
D.S.O.	Order.
D.T.M.	Diploma in Tropical Medicine.
D.V.S.M.	in Veterinary State Medicine
F.A.C.S.	Fellow of the American College of Surgeons.
F.A.I.	Auctioneers' Institute.
F.B.A.	British Academy.
F.C.A.	Institute of Chartered Accountants.
F.C.S.	the Chemical Society.
F.C.I.S.	the Chartered Institute of Secretaries.
F.C.O.G.	College of Obstetricians and Gynaecologists.
F.G.S.	Geological Society.

## xii QUALIFICATIONS REFERRED TO BY LETTERS

F.I.A.	Fellow of Institute of Actuaries.
F.I.C.	Chemistry
F.I.C.A.	Chemistry, Australia.
Phil.Lic. (Upsala)	Licentiate in Philosophy.
F.I.P.	Fellow of the Institute of Physics.
F.I.S.E.	Institution of Structural Engineers.
F.L.A.	Library Association
F.L.S.	Linnaean Society.
F.Ph.S.L.	Physical Society of London.
F.R.A.I.	Royal Anthropological Institute
F.R.A.M.	Academy of Music.
F.R.A.S.	Astronomical Society
F.R.C.O.	College of Organists.
F.R.C.P.	Physicians, London
F.R.C.P. Can.	Canada
F.R.C.P. Ed.	Edinburgh
F.R.C.P.I.	Ireland
F.R.C.S.	Surgeons of England.
F.R.C.S. Can.	Canada
F.R.C.S. Ed.	Edinburgh.
F.R.C.S.I.	Ireland
F.R.C.V.S.	Veterinary Surgeons.
F.R.F.P.S. Glas.	Faculty of Physicians and Surgeons of Glasgow
F.R.I.B.A.	Institute of British Architects.
F.R.S.	Society.
F.R.S.C.	Society of Canada.
F.S.A.	Society of Antiquaries.
F.S.A.A.	Society of Accountants and Auditors.
F.S.I.	Surveyors' Institute.
F.S.S.	Royal Statistical Society.
F.Z.S.	Zoological Society
K.H.C.	Hon. Chaplain to the King
K.H.P.	Hon. Physician to the King.
K.H.S.	Hon. Surgeon to the King
L.C.P.	Licentiate of the College of Preceptors.
L.D.S.	in Dental Surgery.
L.L.A.	Lady Literate in Arts (St. Andrews).
L.M.S.S.A.	Licentiate in Medicine and Surgery, Society of Apothecaries, London.
L.R.A.M.	Royal Academy of Music.
L.R.C.P.	of the Royal College of Physicians, London.
L.R.C.P.I.	Ireland
L.R.C.P. and S. Edin.	Colleges of Physicians and Surgeons of Edinburgh.
L.R.C.S.I.	College of Surgeons, Ireland.
L.R.F.P.S. Glas.	Faculties of Physicians and Surgeons of Glasgow.
L.R.I.B.A.	Institute of British Architects.
L.S.A.	of the Society of Apothecaries
M.Amer.I.M.E.	Member of the American Institute of Mining Engineers
M.Amer.S.C.E.	Society of Civil Engineers.
M.C.	Military Cross.
M.E.I.C.	Member of the Engineering Institute of Canada.
M.I.Ae.E.	Institution of Aeronautical Engineers.
M.I.A.E.	Automobile Engineers.
M.I.Chem.E.	Chemical Engineers.
M.Inst.C.E.	Civil Engineers.
M.Inst.E.E.	Electrical Engineers.
M.I.Mech.E.	Mechanical Engineers.
M.Inst.M. and Cy.E.	Municipal and County Engineers.
M.I.Min.E.	Mining Engineers.
M.Inst.M.M.	and Metallurgy.
M.I.N.A.	Naval Architects.
M.I.P.T.	Petroleum Technologists.
M.I.Struct.E.	the Institute of Structural Engineers.
M.M.	Military Medal
M.M.S.A.	Diploma of Mastery of Midwifery of Society of Apothecaries.
M.N.Z.S.C.E.	Member of the New Zealand Society of Civil Engineers.
M.P.S.	the Pharmaceutical Society.
M.R.C.P.	the Royal College of Physicians, London.
M.R.C.P.Ed.	Edinburgh.

# QUALIFICATIONS REFERRED TO BY LETTERS xiii

M.R.C.P.I.	.	.	Member of the Royal College of Physicians, Ireland.
M.R.C.S.	.	.	" " " Surgeons of England.
M.R.C.S.I.	.	.	" " " " Ireland.
M.R.C.V.S.	.	.	" " " Veterinary Surgeons.
M.R.I.A.	.	.	" the Royal Institute of Anthropology.
M.R.S.I.	.	.	" the Royal Sanitary Institute.
M.S.A.	.	.	" the Society of Architects
M.T.P.I.	.	.	" the Town Planning Institute.
N.D.A.	.	.	. National Diploma in Agriculture.
N.D.D.	.	.	" " Dairying
N.D.P.	.	.	" " Poultry Husbandry.
N.F.U.	.	.	" Froebel Union.
O.A.	.	.	. Officier de l'Académie.
O.B.E.	.	.	. Officer Order of British Empire.
O.I.P.	.	.	. Officier de l'instruction publique.
O.Lég. d'H.	.	.	" de la Légion d'Honneur.
O.M.I.	.	.	. Oblate Father of Mary Immaculate.
P.A.S.I.	.	.	. Professional Associate of the Surveyors' Institution.
Ph.C.	.	.	. Registered Pharmaceutical Chemist
S.S.C.	.	.	. Solicitor of the Supreme Court.
T.D.A.	.	.	. Diploma of Agriculture, Transvaal.
Wh.Sch.	.	.	. Whitworth Scholar.
W.S.	.	.	. Writer to the Signet.



## THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

88A Gower Street, London, W.C.1 (entrance in Torrington Place).

*Telegrams and Cables :* "Uniburb, London."

At the final, Delegates', meeting of the Congress of 1912 it was resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance, and the Bureau was incorporated under licence of the Board of Trade. The Committee thereupon purchased the lease of No. 50 Russell Square. In 1930 the lease of these premises was sold and new offices were built at 88A Gower Street (in Torrington Place), W.C.1, on a site the lease of which was taken from the University of London. At the Fourth Quinquennial Congress of Universities of the Empire, held in July 1931, the Bureau placed before Congress the draft of new Articles for its re-organization, and subject to certain amendments these Articles were approved. The Articles as approved by Congress were submitted in September 1931 to the Board of Trade, which accorded its approval, subject to certain further alterations. Under the new Articles of Association (v. p. xv. ff.) ordinary membership of the Bureau is confined to Universities, and an Executive Council of 21 representatives of Universities at home and overseas has been appointed in place of the Executive Committee.

*The Council of the Universities Bureau desire to welcome members of any of the Universities of the King's Dominions overseas who may visit London, and to place the resources of the Bureau at their disposal.*

Offices at 88A Gower Street have been let to—

THE ANGLO-DANISH BUREAU, ESTABLISHED BY THE DANISH STUDENTS' INTERNATIONAL COMMITTEE. *Director*—J. H. HELWEG, Cand. Mag.

# MEMORANDUM AND ARTICLES OF ASSOCIATION OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

*(The word " Limited " being omitted by Licence of the Board of Trade)*

## MEMORANDUM OF ASSOCIATION

1. The name of the Association is " THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE."

2. The registered office of the Association will be situate in England.

3. The objects for which the Association is established are :—

- (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
- (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Empire.
- (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other public bodies and learned institutions and societies of the British Empire and the Governments, Universities and other bodies of foreign countries.
- (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
- (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the standing Committee of Vice-Chancellors and Principals of Universities in the United Kingdom and for any other Committees which the Universities may from time to time appoint.
- (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Empire or in any foreign country or state, to form centres and secretariats for the work and activities of the Association.
- (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connection with the carrying out of its objects.

- (8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means
- (9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association.
- (10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments.
- (11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities and in such manner as may from time to time be deemed expedient provided that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners or Board of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law
- (12) To borrow or raise money for the purposes of or in connexion with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient
- (13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Empire or any of them.
- (14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Board of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Board of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4 The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association; and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association; but so that no Member of the Executive Committee or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or moneys worth shall be given by the Association to any Member of such Committee or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a Member of the Executive Committee or Governing Body may be a Member or any other company in which such Member shall not hold more than one-hundredth part of the capital, and such Member shall not be bound to account for any share of profits he may receive in respect of any such payment

5. No addition, alteration, or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.

8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributories amongst themselves, such amount as may be required not exceeding One Pound.

9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of

its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10 True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits, and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined, and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

## ARTICLES OF ASSOCIATION

### PRELIMINARY

1. The number of the Members of the Association is declared not to exceed 100, but the Council may at any time register an increase in the number of the Members.

2. These Articles shall be construed with reference to the provisions of the Companies Act, 1929, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act

3. The Association is established for the purposes expressed in the Memorandum of Association

### MEMBERSHIP

4 The Members of the Association shall consist of corporate bodies with the following status :—

- (a) *Ordinary Members* who shall be (i) such of the Universities specified in Schedule A attached to these Articles as sign the undertaking required by Article 5, and (ii.) such Universities situate within the British Empire, which may be hereafter incorporated, as are admitted members by the Council in accordance with such regulations as may be framed by the Council in this behalf.
- (b) *Associate Members* who shall be such Universities in mandated territories and such other institutions being University Colleges or Colleges of Universities within the Empire (being corporate bodies), as may hereafter be admitted members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

- (c) *Such other classes of members* (consisting of corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be re-admitted to membership upon payment of the subscription for the year during which its membership lapsed.

#### DUTIES OF MEMBERS

11. Every Member of the Association shall be bound .—

- (a) To pay to the Association such minimum annual subscriptions for the various classes of members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.
- (b) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

#### COUNCIL OF THE ASSOCIATION

12. The Executive of the Association shall be a Council consisting

of 21 persons chosen from the representatives of Ordinary Members as follows :—

Member Universities of Great Britain and Ireland			9 representatives
"	"	Canada	3 "
"	"	Australia	2 "
"	"	New Zealand	1 representative
"	"	South Africa	2 representatives
"	"	India	3 "
"	"	other parts of the British Empire	1 representative.

13 The Members of the Council shall be appointed by the Association in General Meeting for a period of one year on the respective nominations of the Ordinary Members of the Association for the several territories specified in Article 12.

14. The office of a Member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association

15 Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7 The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among Members of the Council, but if the number of Members of the Council shall be reduced below 13 the continuing Members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association

17. The Council shall manage and control all matters relating to the management and organisation of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1929, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting ; but no regulation made by the Association in General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Empire and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities,

but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council may elect a Chairman of their meetings and determine the period for which he is to hold office, but if no such Chairman is elected, or if he should not be present at the commencement of any meeting of the Council, the members of the Council shall select a Chairman from those present for that meeting.

21. The Chairman of the Council may at any time, and the Secretary upon the request of six Members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six Members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each Member of the Council shall name an address in the United Kingdom at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of Members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of Association for the time being vested in or exercisable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of Members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a Member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a Member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (a) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (b) particularly for the following purposes :—

- (1) for admitting Universities which may hereafter become corporations ;
- (2) for admitting as Associate members Corporations which are Universities in mandated territories and other institutions,



- being University Colleges or Colleges of Universities within the Empire ,
- (3) for assigning privileges of membership to (a) Associate members and (b) other classes of members ,
  - (4) for prescribing a form to be signed by members prior to admission as members ;
  - (5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives ;
  - (6) for managing the business and defining the duties of the Association ;
  - (7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles ;
  - (8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19 ;
  - (9) for arranging for the provision of secretarial assistance to such Committees ; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned ;
  - (10) for determining the period for which the Chairman of the Council is to hold office ;
  - (11) for defining the manner in which the minutes of business transacted at meetings of the Association are to be recorded ;
  - (12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached ;
  - (13) for prescribing the form in which instruments appointing proxies shall be framed ;
  - (14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 60 ,
  - (15) for prescribing the place at which such books of account shall be kept

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration of or addition to these Articles as could only lawfully be made by Special Resolution.

#### MINUTES

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof.

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

#### SEAL

32. The Council shall provide for the safe custody of the seal, and

the seal shall never be used except by the authority of the Council previously given, and in the presence of a Member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council

## GENERAL MEETINGS .

33 A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting.

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the Empire or within three days of the commencement or termination of that Congress.

36 Notwithstanding any provisions to the contrary in these Articles the Chairman shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Council summon an Extraordinary Meeting.

38 Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be :—

- (a) To receive and consider the accounts, the balance sheet and the reports of the Council and the Auditors ;
- (b) To appoint an Auditor or Auditors and fix his or their remuneration.
- (c) To appoint the Members of Council in accordance with the provisions of Article 13.

l other business transacted at an Ordinary Meeting and all business unsacted at an Extraordinary Meeting shall be deemed special. If y Member has any proposal or any matter which he wishes to make bring before an Ordinary Meeting he shall give fourteen days' written tice thereof to the Secretary

41. Subject to the provisions of Section 117 (2) of the Companies Act, 29, relating to Special Resolutions, twenty-eight days' notice at the .st (or in the case of a meeting convened pursuant to a requisition of mbers fourteen days' notice at the least) exclusive of the day of giving e notice but inclusive of the day of the meeting, specifying the place, e day and hour of meeting and (in case of special business) the ernal nature of such business, shall be given by notice to the Members manner hereinafter stated with reference to the giving of notices, but e accidental omission to give such notice to or the non-receipt of such tice by any Member shall not invalidate the proceedings of any meet- g. It shall not be necessary to give notice of a meeting to a repre- tative of a Member who has no registered address in the United ngdom.

42. Except as otherwise provided by these presents no business shall transacted at any General Meeting unless a quorum of Members titled to vote is present at the time when the meeting proceeds to iness

43. A quorum shall consist of ten Ordinary Members.

44. If within half-an-hour from the time appointed for a meeting n Ordinary Members entitled to vote are not present the meeting if nvened upon a requisition of Members shall be dissolved but in any her case it shall stand adjourned to a place to be fixed by the Chairman d to a date to be fixed by the Chairman not earlier than two weeks and t later than one month after the date of the original meeting, and if at ch adjourned meeting a quorum is not present but two or more dinary Members entitled to vote are present the Members present titled to vote shall be a quorum and may transact the business for uch the original meeting was called

45. At any adjourned General Meeting the Ordinary Members present titled to vote being two or more in number shall have the power to side upon all matters which could properly have been disposed of at e meeting from which the adjournment took place had a sufficient mber of Members entitled to vote been present at such meeting. otice of the time and place fixed by the Chairman for an adjourned eeting shall be given to all Members entitled to receive notices of eetings.

46. The Chairman of the Council shall be the Chairman of every eneral Meeting, but if within fifteen minutes from the time appointed r holding the meeting he is not present the Members present at the eeting and entitled to vote shall choose a Member entitled to vote to t as Chairman in his place.

47 The Chairman may upon the resolution of the meeting adjourn y meeting from time to time and from place to place but no business all be transacted at any adjourned meeting other than the business ft unfinished at the meeting from which the adjournment took place.



56. Only representatives of Members entitled to vote shall be appointed proxies.

57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

#### ACCOUNTS

60. The Council shall cause proper books of account to be kept with respect to :—

- (a) all sums of money received and expended by the Association and the matters in respect of which the receipts and expenditure take place,
- (b) all sales and purchases of goods by the Association ;
- (c) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 123 of the Act, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts, balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

#### AUDIT

64. Auditors shall be appointed and their duties regulated in accordance with Sections 132, 133 and 134 of the Companies Act, 1929.

#### NOTICES

65. A notice may be given by the Association to any Member either personally to the representative of such Member or by sending it by post to such representative to his address in the United Kingdom. Every representative of a Member shall furnish to the Association an address in the United Kingdom at which notices may be served.

66. Where a notice is sent by post, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected on the day succeeding that on which it was posted

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SCHEDULE A. (*Vide* Article 4 (a))

UNIVERSITIES OF GREAT BRITAIN AND IRELAND

*England and Wales* : Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Oxford, Reading, Sheffield, Wales.

*Scotland* . Aberdeen, Edinburgh, Glasgow, St Andrews.

*Ireland* : The Queen's University of Belfast ; University of Dublin, Trinity College ; The National University of Ireland.

UNIVERSITIES OVERSEAS

*Canada* : Acadia, Alberta, Bishop's College,\* British Columbia,\* Dalhousie, King's College,\* Laval, McGill, McMaster,\* Manitoba,\* Montreal,\* Mount Allison, New Brunswick,\* Ottawa, Queen's, St Francis Xavier,\* Saskatchewan, Toronto, Western Ontario.

*Australia* : Adelaide, Melbourne, Queensland,\* Sydney, Tasmania,\* Western Australia.\*

*New Zealand* . The University of New Zealand.

*South Africa* : Cape Town, Pretoria,\* South Africa, Stellenbosch, Witwatersrand.

*Malta* . The University of Malta.

*India* : Agra,\* Aligarh Muslim University,\* Allahabad,\* Andhra, Annamalai, Benares Hindu University,\* Bombay, Calcutta, Dacca,\* Delhi,\* Lucknow,\* Madras, Mysore, Nagpur,\* Osmania University, Panjab, Patna, Rangoon.

*Hong-Kong* . The University of Hong-Kong

\* Not at present a member of the Universities Bureau.

# ORDINARY MEMBERS OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE, TOGETHER WITH THEIR REPRESENTATIVES

## ENGLAND AND WALES

<i>University</i>	<i>Representative</i>
Birmingham . . . .	Sir Charles Grant Robertson, C.V.O., M.A., LL.D.
Bristol . . . . .	Thomas Loveday, M.A., LL.D.
Cambridge . . . . .	Will Spens, C.B.E., M.A.
Durham . . . . .	Sir William S. Marris, K.C.S.I., K.C.I.E., D.Litt.
Leeds . . . . .	Sir James B. Baillie, O.B.E., M.A., D.Phil., LL.D.
Liverpool . . . . .	H. J. W. Hetherington, M.A., LL.D.
London . . . . .	Edwin Deller, LL.D.
Manchester . . . . .	Walter H. Moberly, D.S.O., M.A., Litt.D.
Oxford . . . . .	A. E. W. Hazel, C.B.E., M.A., LL.D., B.C.L., K.C.
Reading . . . . .	T. Franklin Sibly, LL.D., D.Sc.
Sheffield . . . . .	A. W. Pickard-Cambridge, M.A., D.Litt.
Wales . . . . .	C. A. Edwards, D.Sc., F.R.S.

## SCOTLAND

Aberdeen . . . . .	Very Rev. Sir George Adam Smith, M.A., D.D., LL.D., Litt.D., F.B.A.
Edinburgh . . . . .	Sir Thomas H. Holland, K.C.S.I., K.C.I.E., LL.D., D.Sc., F.R.S.
Glasgow . . . . .	Sir Robert S. Rait, C.B.E., LL.D.
St Andrews . . . . .	Sir James C. Irvine, C.B.E., Ph.D., LL.D., D.C.L., D.Sc., Sc.D., F.R.S.

## IRELAND

Queen's, Belfast . . . .	Sir Richard W. Livingstone, M.A., D.Lit.
Dublin, Trinity College . .	E. J. Gwynn, Litt.D., D.Litt., LL.D.
National University of Ireland	Denis J. Coffey, M.A., LL.D., M.B., B.Ch. B.A.O.

## CANADA

Acadia . . . . .	F. W. Patterson, D.D., LL.D.
Alberta . . . . .	Professor J. J. R. Macleod, LL.D., D.Sc. M.B., Ch.B., F.R.S.
Dalhousie . . . . .	D. F. Fraser-Harris, D.Sc., M.D., F.R.S.C.
Laval . . . . .	Professor A. Vachon, M.A., Lic.Ph.
McGill . . . . .	Sir Arthur Currie, G.C.M.G., K.C.B., LL.D.
Mt. Allison . . . . .	G. J. Trueman, M.A., Ph.D.
Ottawa . . . . .	Hon. L. J. Lemieux, M.D.
Queen's, Ontario . . . .	William Hamilton Fyfe, M.A.

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Saskatchewan	.	.	.	Not yet nominated.
Toronto	.	.	.	J. C. McLennan, O B.E., Ph.D, LL.D., F.R.S.
Western Ontario	.	.	.	Lewis R. Yealland, M.D, M.R.C P.

## AUSTRALIA

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Melbourne	.	.	.	Professor J. I. Orme Masson, D.Sc., F.I.C.
Sydney	.	.	.	R. S. Wallace, M.A., LL.D.

## NEW ZEALAND

New Zealand	.	.	.	A. J. Harrop, M.A., Ph.D.
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## SOUTH AFRICA

Cape Town	.	.	.	Rt. Hon. Lord Lugard, G C.M.G., C.B., D.S.O , D.C.L., LL.D.
South Africa	.	.	.	J. J. Bond, B.A.
Stellenbosch	.	.	.	Professor Willem Blommaert, Litt.D.
Witwatersrand	.	.	.	William Cullen, LL.D.

## INDIA

Andhra	.	.	.	Professor Sir Sarvapalle Radhakrishnan, M.A., D.Litt.
Annamalai	.	.	.	H. C. Papworth.
Bombay	.	.	.	Hon. Mr. Justice Mirza Ali Akbar Khan, B.A.
Calcutta	.	.	.	Sir William E. Greaves.
Madras	.	.	.	Sir Bhupendranath Mitra, K C.S.I., K.C.I.E., C.B.E., M.A.
Mysore	.	.	.	E. P. Metcalfe, D.Sc., F.Inst.P.
Osmania	.	.	.	B. C. McEwen.
Panjab	.	.	.	Sir John Maynard, K.C.I.E., C.S.I., D.Litt
Patna	.	.	.	H. Lambert, M.A.
Rangoon	.	.	.	Sir Benjamin H. Heald, V.D., M.A.

## OTHER PARTS OF THE EMPIRE

Malta	.	.	.	Adnan Dingli, O.B.E., M.A., LL.D., Jur.D.
Hong-Kong	.	.	.	W. J. Hinton, M.A.



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*(Appointed under Articles 12 and 13 of the Articles of Association at the First General Meeting held in London on the 24th September 1932)*

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WILL SPENS, C.B.E., M.A.	(Cambridge)
Cambridge	
EDWIN DELLER, LL.D.	(London)
London	
Sir JAMES B. BAILLIE, O.B.E., M.A., D.Phil., LL.D.	(Leeds)
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(National University of Ireland)	
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Aberdeen, Edinburgh, Glasgow, St. Andrews and Belfast	

#### UNIVERSITIES OF CANADA

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J. C. McLENNAN, O.B.E., Ph.D., LL.D., F.R.S.	(Toronto)
LEWIS R. YEALLAND, M.D., M.R.C.P.	(Western Ontario)

#### UNIVERSITIES OF AUSTRALIA

Professor H. DARNLEY NAYLOR, M.A.	(Adelaide)
R. S. WALLACE, M.A., LL.D.	(Sydney)

#### UNIVERSITY OF NEW ZEALAND

A. J. HARROP, M.A., Ph.D.	(New Zealand)
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# THE EXECUTIVE COUNCIL

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WILLIAM CULLEN, LL.D (Witwatersrand)

## UNIVERSITIES OF INDIA

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(Bombay)

Sir BHUPENDRANATH MITRA, K.C.S.I., K.C.I.E.,  
C.B.E., M.A. (Madras)

Professor Sir SARVAPALLE RADHAKRISHNAN, M.A.,  
D. Litt. (Andhra)

## UNIVERSITIES OF OTHER PARTS OF THE EMPIRE

### HONG-KONG, MALTA

W. J. HINTON, M.A. (Hong-Kong)

Hon. Director : Sir H. FRANK HEATH, G.B.E., K.C.B., B.A., Ph.D.

Secretary : W. B. BRANDER, C.I.E , C.B.E., M.A.



# UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL SUMMARY—NUMBER OF FULL-TIME STUDENTS—NATIONAL UNIONS OF STUDENTS—TERMS—SCHOLARSHIPS—LIBRARIES—UNIVERSITY GRANTS—REPRESENTATIVES IN PARLIAMENT—UNIVERSITY EXTENSION—CONFERENCES—COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS—CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE—DEGREES.

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the “trivium”—GRAMMAR, LOGIC, and RHETORIC, and the “quadrivium”—ARITHMETIC, GEOMETRY, MUSIC, and ASTRONOMY) the Universities added the three higher “Faculties” of THEOLOGY, LAW, and MEDICINE in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth century the teaching in the Universities had become mainly traditional and formal, and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession. The few Denominational tests retained by the older Universities were abolished in 1871. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects, and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England, and did much to make the Universities accessible to all classes of the community.

Meanwhile the foundation in 1827 on a strictly undenominational basis of the "University of London," which obtained a charter in 1836 as University College, London, provided a teaching institution of University rank which was free from all restriction of tests and dared to include Chemistry and Engineering in its curriculum. The University of London received its charter at the same time and the University of Durham in 1837. In its original conception Durham followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881; the University Extension College, in conjunction with the Schools of Science and Art, Reading, in 1892. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries, and from the first laid stress upon the study of mathematical, scientific, and modern subjects. Reading differs from the others in having been established in a town of comparatively small size (population less than 100,000), in the prominence given to work bearing on the agricultural and associated industries, and in its policy of making residence in college or hostel the rule for its students. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry.

A University of Wales was projected early in the fifteenth century, and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884, and 1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels.

The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the then recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University, which was absorbed in 1880 in the Royal University. - University College, Dublin, representing the Catholic University established by the Irish Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

WOMEN were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886, and King's in 1902. The last was merged in King's College, London, in 1885. King's College of Household and Social Science was founded in 1908 as a department of King's College for Women, and became a separate "School" of London University in 1928. Of the Cambridge colleges, Girton originated at Hitchin in 1869, and was removed to the near neighbourhood of Cambridge in 1873; Newnham was founded in 1880. The colleges at Oxford were opened, Lady Margaret in 1878, Somerville in 1879, St. Hugh's in 1886, and St. Hilda's in 1893. Cambridge admitted women informally to Tripos examinations in 1872 and to the titles of degrees in 1923; in 1926 women were declared eligible to university teaching posts and therefore to membership of boards of faculties. Oxford admitted them to examinations in 1884, to degrees and full membership in 1920, and to university teaching posts in 1927. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904, and to all the modern Universities from their foundation.

Unlike those of most other countries, the Univs. of the United Kingdom have been, since their origin, independent of State control. Another distinguishing characteristic of British Univs., as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

Pursuant to the recommendations made by the Royal Commission of 1919, important constitutional and other changes have been effected at Oxford and Cambridge by the Statutory Commissioners appointed in 1923. See the sections relating to these universities.

ADMISSION AS AN UNDERGRADUATE FROM HOME AND ABROAD. See Appendix XXII.

SCHOOL EXAMINATIONS. See Appendix XXII.

The NUMBER OF FULL-TIME STUDENTS in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1930-31 as 47,587, including 12,958 women. To these must be added the students of the Irish Universities and of certain schools of the University of London not in receipt of Parliamentary Grant, making a total of, approximately, 50,000. The above statistics do not include the students

of the institutions, other than Universities and University Colleges, in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. This makes comparison with statistics of other countries difficult, as does also the fact that the work of the higher forms of many of our secondary and "public" schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of some foreign Univs., e.g. in America.

A NATIONAL UNION OF STUDENTS of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (see Appendix XXVIII.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. A particularly important Dept. is that for Exchange and Tuition Visits which arranges each year many hundreds of exchanges between British and foreign students.

Similar National Unions exist in Canada, South Africa, Australia, and New Zealand, and there have been two conferences of Student Unions of the Empire, the first held in London and Cambridge in July 1924, and the second in Montreal in Sept. 1929. The purpose of these conferences has been to discuss ways and means of practical co-operation among the students of the Empire and questions of general Imperial interest. As a result of them it is possible to arrange periodic visits of Debating Teams from Gt. Britain to the Dominions and *vice versa*, and among the various Dominions themselves. Large groups of South African students have visited England on three occasions, and such visits will probably become annual events. The formation of the Dominion Students' Athletic Union with headquarters in London was a direct outcome of the first Imperial Students' Conference, and the existence of this Union makes it possible to arrange the participation of Dominion Teams in the International University Games and to promote athletic fixtures between teams of Dominion Students resident in England and teams representing the British Universities. *Publication*—"The University," once a term, 6d. *Address*—3 Endsleigh Street, London, W.C.1.

THE STUDENTS' REPRESENTATIVE COUNCILS OF SCOTLAND. The Students' Representative Councils of the four Scottish Univs have recently appointed a permanent Secretary and organized themselves into a National Body under the above title (S.R.C.S.). Secretary (to whom all communications should be sent), Charles G. Brown, 12 Golden Square, Aberdeen. The S.R.C.S. is a Member of the International Confederation of Students, annually holds an inter-University Conference, and conducts its domestic government by means of an Executive Council consisting of the Senior Members of each of the Univs. It maintains offices for the organization of student travel, reception of

foreign students and student exchange and tuition visits. Communications on these subjects should be addressed to "The Travel Secretary, S.R.C. Offices, The University, Edinburgh." It also maintains what is called an "Honorary Academic Consulate." In almost every Univ. town of the world a Consul has been appointed. This individual gives to Scottish students and graduates a general introduction to the City and Univ. where he acts. The full facilities of this Consulate have now been given to the National Union of Students of England and Wales. Keeper of the Consulate—Charles G. Brown (address as above).

**TERMS.** The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec.; middle of Jan. to end of March; middle of April to end of first week in July.

**FEES.** See under the several Universities.

**SCHOLARSHIPS** Few countries offer a richer variety than England and Wales of facilities for access to the highest forms of education. The lead of the "pious founder" has been followed by city companies and professional bodies, and, since the Education Act of 1902 brought higher education within the purview of Local Authorities, by the State. The response to the principle which found expression in the words of Mr. Fisher's Education Act of 1918 that "children and young persons should not be debarred by inability to pay fees from receiving the benefits of any form of education by which they are capable of profiting" has been so remarkable that L.E.As. are now assisting more students to take courses at Univs. than they were helping to obtain Secondary education before the Act of 1902 was passed. From the grant-aided Secondary Schools of the country alone, with their 438,000 pupils (on Oct. 1, 1931), over 214,900 of whom were free pupils, a steady stream of some 4000 students, more than 64 per cent. of whom were previously educated in Public Elementary Schools, passes each year to the Univs. and University Teachers' Training Departments. The number of scholarships available and their variety, as regards conditions of tenure, put any attempt to give a comprehensive list out of the question. Those in search of assistance should apply for their Local Education Authority's Scholarship Handbook.\* The main agencies in England and Wales by which scholars are assisted to attend Univs. may be classified, in the order of the probable number of awards made and the annual expenditure incurred: (i.) *Local Education Authorities*. The majority of awards are given to candidates who have done good work in College Scholarship and the Higher School Certificate Exams., though a number of Authorities hold exams. of their own or grant assistance upon a consideration of school records. The expenditure of L.E.As. for 1930-31 in aid to students at Univs. was £287,169. (ii.) *"Open" Scholarships awarded by the Univs. or their individual Colls.* A brief notice of scholarships open to graduates will be found in the general information regarding each

\* Some of the Scholarship Handbooks, e.g. that published by the London County Council (P. S. King & Son, Ltd., 14 Gt. Smith St., Westminster, S.W.1, price 3d.) include a great deal of information in regard to general sources of assistance open to the whole country as well as assistance available for persons actually resident in the particular area.



Univ. No particulars are readily available to show the total number of entrance scholarships and exhibitions awarded annually. About 550 awards are made each year by Oxford and Cambridge. (iii) *State Scholarships*. About 300 are now awarded annually by the Board of Education to boys and girls in full-time attendance at grant-aided Secondary Schools, on the recommendation of the Bodies that conduct the Higher Certificate Exams. The scholarships are tenable by students reading for an Honours degree. Analyses of these awards and the courses and degrees taken will be found in the statistical information published annually by the Board of Education. The expenditure upon State scholarships during the financial year ended March 31, 1932, was £83,684. (iv.) *Leaving Scholarships and Exhibitions awarded by Endowed Schools*. The expenditure upon such awards current in the year 1930-31 from the 478 Endowed Schools on the grant list of the Board was £43,600. To these must be added 362 Schools recognized as efficient by the Board, but not on the grant list, for which figures are not readily available. (v.) *Charities unattached to Schools, but with power to offer Exhibitions under their Instruments of Government*. The number of educational charities in the country is extremely large. Information in regard to scholarships available in any particular area can usually be obtained by application to the L.E.A. Some of the larger funds open to the whole country are indicated in App XXIII. Further particulars will be found in the Annual Charities Register and Digest. It should be understood that assistance is often accorded from complementary sources. The holder of a Major Scholarship of a L.E.A. may, for instance, also hold a State Scholarship or College award, or possibly (with an upward limit of the total amount) all three. In Ireland conditions are similar.

For Scholarships in Scotland, v. p 291 f.

LIBRARIES. (See also "Libraries" under the Univs. below.) A Library Co-operation Inquiry Office has been established by the Association of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees. It endeavours to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. All inquiries must be made through the librarian of a university or college accompanied by a statement as to the libraries already applied to unsuccessfully. Address: The Information Dept., National Central Library, Malet Place, Malet Street, London, W.C.1. Full details of all university and college libraries may be found in *The University and College Libraries of Great Britain and Ireland: a Guide to the Material Available for the Research Student*, by L. Newcombe, Bumpus, 1927. This book gives details of the contents of some 300 university and college libraries, with special reference to those collections which are likely to be of value to the research student. The Association of Special Libraries and Information Bureaux, 16 Russell Sq., W.C.1, was established in 1925 with the help of a grant from the Carnegie Trustees. In 1928 the Association published in conjunction with the Oxford Univ. Press *The Aslib Directory*, a guide to sources of specialized information in Great Britain and Ireland. Price £1: 1s.

**THE NATIONAL CENTRAL LIBRARY.** Its function is to supply those books which the local library is unable to provide. It does not issue books direct to individuals, but only to the library to which they have access. Every endeavour is made to provide, through its system of Outlier Libraries, any type of educational or vocational book, pamphlet or periodical (costing not less than 8s., and *exclusive of textbooks for exams*), on any subject, if a copy is not in the local library. Advanced scholars and research students may thus obtain books and periodicals not accessible to them elsewhere. No charge is made for books lent, but postage both ways must be paid by the borrowing library, which accepts full responsibility for the safety and return of the books. The address of the local library, if not known, will be supplied on application to The Librarian, N.C.L., Malet Place, Malet Street, London, W.C.1.

**PARLIAMENTARY GRANTS TO UNIVS. AND UNIV. COLLS.** The grant for 1930-31 was £1,550,000. For the current quinquennium, "subject to the over-riding necessities of national finance," it will be £1,800,000.

**REPRESENTATIVES IN PARLIAMENT.** In U.K.—Oxford (2), Cambridge (2), London (1), Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, Reading (2), Wales (1), Scottish Univs. (3), Belfast (1). In N. Ireland—Belfast (4). In Irish Free State—Dublin, Trin. Coll. (3), Nat. Univ. of I. (3).

**ADULT EDUCATION.** *University Extension* Courses have been promoted by the Univs. of Cambridge, Oxford and London for the last 50 years. At Cambridge they are known as local lectures and were initiated in 1873. Oxford and London took up the work soon afterwards. These courses number several hundreds and vary in length from 6 to 25 lectures. In 1926 the Universities Extra-mural Consultative Committee was established to consider, especially from the point of view of administration, the many aspects of extra-mural work now undertaken by the Univs., and to contribute towards the formation of a common policy. Each Univ. and independent Univ. Coll. of England and Wales is represented by one member, generally the chief executive officer of the Extra-mural Dept., and certain persons are co-opted. An Annual Report is printed giving a tabular statement of Univ. Extension Courses and other activities of Univ. Extra-mural Depts.

In 1903 *The Workers' Educational Association* was founded. In 1907 relations were established with Oxford Univ. Since that date relations have been established with all the Univs. and Univ. Colleges, and there are joint committees composed of representatives of the Univ. or College and the W.E.A., which promote Preparatory Classes, Three-Year Tutorial Classes, Advanced Classes, Vacation Courses, etc. Most of these classes and courses are recognized by the Board of Education for purposes of GRANT UNDER CHAPTER II. OF THE ADULT EDUCATION REGULATIONS.

The *Adult Education Committee* was appointed by the President of the Board of Education, in April 1921, to promote the development of liberal education for adults, and in particular to bring together

national organizations concerned with the provision of adult education, so as to secure mutual help and prevent overlapping and waste of effort, to further the establishment of local voluntary organizations for the purpose and of arrangements for co-operation with Local Education Authorities; and to advise the Board of Education upon any matters which the Board may refer to the Committee. It has been reappointed by successive Presidents. It includes representatives of all Univs. in England and Wales, and of the principal voluntary organizations engaged in the work of Adult Education; also four representatives of Local Education Authorities. Assessors are appointed by the Board of Education, the Admiralty, the Army Council, and the Air Ministry. Since 1921 the Committee has been engaged on many inquiries, and their Reports have been published by H M Stationery Office, Adastral House, Kingsway, London, W.C.2. The more recent are: No. 6—The Drama in Adult Education. (1s) No. 7—Full-time Studies (6d.) No. 8—Natural Science in Adult Education. (6d.) No. 9—Pioneer Work and other Developments in Adult Education. (6d) No. 10—The Scope and Practice of Adult Education. (1s. 6d)

The *British Institute of Adult Education*, 39 Bedford Square, London, W.C.1, is a central co-ordinating body on adult education, having at its headquarters an Information Bureau and Library of Adult Education. Its work includes research into problems connected with the movement and investigation of new methods of progress. The Institute arranges an Annual Conference at which are represented: Local Education Authorities, Universities, Voluntary Associations, and the Board of Education.

Publications. *Journal of Adult Education* (half-yearly); *Light and Sound* (quarterly); *Review of Modern Aids to Learning*; *Historian's Scrapbook* (a picture gallery of life during the nineteenth century).

CONFERENCES. In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor (Ph.D.), obtainable by graduates of British and foreign Univs. after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions, and other matters have been considered by Conferences specially convened at various times. No Conference has been held since 1929.

COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS. In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Govt. of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs. the desirability of establishing a representative body to which matters of interest to the Univs. might be referred by Govt. Departments.

He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and represent them in their relations with the Univs. of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs. and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs. of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities Bureau, be appointed a 'Standing Committee' to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt., and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors dealt with a number of subjects of common interest to the Univs., which are mentioned in previous issues of the *Yearbook*.

In 1929 the Standing Committee of Vice-Chancellors was dissolved and an Advisory Committee of Vice-Chancellors and Principals was established in its place, the members of which are appointed by the several Universities and by one of the three University Colleges in rotation.

In 1931-32 the subjects discussed were: The economy proposals of Government so far as they affected the Universities; Deductions of Income-Tax from Superannuation Payments; Supplemental Charter for the Institute of Chemistry; the Palestine Matriculation Certificate; Reciprocal arrangements in connexion with the five Bourses granted by the French Government; the Consultative Council of University and School Teachers; Co-operation of University Libraries with the National Central Library; Supervision of Colonial Students; Recruitment of Graduates for Local Government Services; Report of the Committee of the Economic Advisory Council on the Education and Supply of Biologists; the National Union of Students Exchange and Tuition Visits Department; Supply of Returns to the Department of Scientific and Industrial Research regarding the Employment of Science Graduates; Distribution of a list of Publications regarding Study Abroad, Holiday Courses, and International Scholarships; Dates of University Appointments; Legislation penalising the false assumption of degrees; Additional Payments to Teachers with Good Honours Degrees; Import Duties; Differentiation between Home and Foreign Students in respect of Fees and Admission; Indians at the Universities; Allocation of German Scholarship Holders amongst the Universities; Publicity in respect of Facilities for Research; Hospitality to Foreign Professors; Exchange of Professors with Belgium and Holland.

#### CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE

The FIRST CONGRESS of the Univs. of the Empire was held in London on July 2 to 5, 1912. All the Universities of the Empire were represented. The SECOND CONGRESS of the Univs. of the Empire met in Oxford on July 5 to 8, 1921, and the THIRD CONGRESS was held in

Cambridge on July 13 to 16, 1926. For particulars as to the papers read, etc., see the *Yearbook* for 1930.

*Reports of the Proceedings of the Congress, 1912, 1921, 1926*, G. Bell & Sons, London, price now reduced to 7s. 6d. net each.

The FOURTH CONGRESS of the Univs. of the Empire was held in Edinburgh from July 7 to 10, 1931. Delegates from sixty-nine Empire Universities were present, as well as a number of representatives from Univs., Univ. Colls., Government Depts., Royal Societies, and other British and foreign institutions. H.R.H. The Prince of Wales, as President, formally opened the proceedings of Congress on 3rd July at the Guildhall in the City of London. His speech, the opening addresses, and a full report of the discussions and of the business proceedings are printed in the *Report of the Proceedings of Congress*, published by G. Bell & Sons, 1931, price 21s.

#### DEGREES CONFERRED BY THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

The older Universities have developed out of the Univs of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs in other lands. Their titles of degrees afford an illustration of this. A Univ. of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, exams. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master, or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge, and Dublin, where the examn. for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn. after an interval of two or three years, but in no case less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs. have divided the degree into stages—usually described as the “first” and “higher” degrees—Bachelorship, Mastership, and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years’ Univ. course.

At Oxford and Cambridge the Faculty of Arts is not subdivided. B.A. is the “first degree,” whether the course leading to it be literary or scientific. In Trinity College, Dublin, a B.Sc. course, including no classical language, was introduced in 1926, but it is expected that most Science students will continue to take the B.A., which remains the

primary degree, and must be obtained before proceeding to any other degree except Mus.B., Mus.D., B.Sc. and Ph.D. At Cambridge there is no B.Sc. At Oxford the B.Litt. and B.Sc. are awarded for special study and research, like the M.Litt. and M.Sc. of Cambridge. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A.

At all other Univs. a course in Arts leads to the B.A. (in Scotland, M.A.), in Science to the B.Sc., in Commerce to the B.Com., and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor's degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first :

*Bachelor of Arts* : B.A. ; B.A. (Administration) Manchester ; B.A. (Commerce) Manchester.

*Bachelor of Science* : B.Sc.

*Bachelor of Science in its various applications* : B.Sc. (Engineering), B.Eng. Liv., Sheff.; B.A.I. Dub.; B.Sc. (Metallurgy), B.Met. Sheff.; B.Sc. (Mining), B.Sc. (Mining Engineering) Glas.; B.Sc. Tech.; B.Sc. (Applied Chemistry), B.Sc. (Naval Architecture); B.Sc. (Veterinary Science), B.V.Sc. Liv.; B.Sc.Agr., B.Agr. Bris., Belf., Agr.B. Dub., B.Agr.Sc. N.U.I.; B.Sc. (Architecture) Glas.; B.Sc. (Forestry), Agr.B. (Forestry) Dub.; B.Sc. (Household and Social Sci.) London; B.Sc. (Estate Management); B.Sc. (Dairying) Reading; B.Sc. (Economics); B.Sc. (Commerce) London; B.Sc. (Horticulture) London and Reading; B.Sc. (Public Health), B.Hy. Durh.; B.Sc. (Pharmacy) Glas.; B.Sc. (Textile Technology) Belfast.

*Bachelor of Commerce* : B.Com. or B.Comm., B.Com.Sc. Belf.

*Bachelor of Agricultural Science* : B.Agr.Sc. N.U.I.

*Bachelor of Architecture* : B.Arch.

*Bachelor of Dental Science* : B.D.S., B.Ch.D. Leeds, B.Dent.Sc. Dub.

*Bachelor of Education* : B.Ed. or Ed.B. (of the Scottish Univs., two years after a first degree).

*Bachelor of Literature* : B.Litt. (St. Andrews and Oxford).

*Bachelor of Pharmacy* : B.Pharm. (London, 3 yrs.' course).

*Bachelor of Philosophy* : B.Phil. (St. Andrews).

*Bachelor of Technology* : B.Tech. (Wales).

In Theology the title of the first degree is B.D. In Law it is LL.B., B.C.L. Ox. Durh., B.L. or (open only to graduates in Arts) LL.B. the Scottish Univs. In Medicine the signature of the title is M.B., B.M. Ox.; in Surgery, Ch.B., B.Chir. Camb., B.Ch. Dub. Ox. Wales, Belf., B.S. Durh. Lond.; in Obstetrics, B.A.O. Belf. Dub. N.U.I. In Music, Mus B., B.Mus. Birm. Durh. Ox. Wales.

*The Primate's Degrees* : Under powers conferred before the Reforma-

tion by the Pope, the Primate has the right to confer degrees. In recent years he has, on an average, conferred annually two doctorates.

### *Honours Degrees*

In all Univs. of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At Oxford the Honours Schools (B.A.) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos., Politics and Economics.

At Cambridge (Triposes), in Anthropology, Classics, Economics, English, Geography, History, Law (B.A. and LL.B.), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

In Scotland : M.A. Hons. in Celtic, Classics, Econ. Science, English (Aberdeen, Geography), History (St. Andrews, History and English), French, German, Italian, Spanish, or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St. Andrews, Natural Science, Maths. and Physical Science, Philosophy), Sanskrit, Semitic Languages ; B.Sc. Hons. in various branches of Science.

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages, Oriental Languages.

At London, B.A. Hons. in Classics, Latin, Greek, Mathematics, Anthropology, Archæology, English, French, German, Celtic, Italian, Spanish, Portuguese, Dutch, Scandinavian Langs., Russian, Polish, Czech and Slovak, Serbo-Croat and Slovene, Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Sociology, Geography ; B.Sc. (Special), Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics ; B.Sc. (General)—three subjects ; B.Sc. Hons. (Economics) ; B.Sc. Hons. (Engineering) ; B.Sc. Hons. (Mining) ; B.Sc. Hons. (Metallurgy) ; B.D. Hons. ; LL.B. Hons. ; M.B., B.S. Hons. : B.D.S. Hons.

In other Univs. Honours are obtainable in a variety of subjects.

### *Recognition of Study at other Universities*

**UNDERGRADUATES.** The Univs. of Bristol and Leeds accept attendance for 1 yr at any Univ. requiring residence as a qualification for a degree. At London any person who has passed the external Intermediate examn. before registering as an Internal student may take the Final Examn. after a 2 yrs.' course and qualify for a degree in the subsequent year. At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs., who have attended lectures for at least 2 yrs. and

attained a prescribed standard, are allowed to count the first term kept by residence as the fourth. At Cambridge a similar privilege is allowed to certain classes of students. At Dublin, students who have spent 2 yrs. in Arts studies at certain Univs. and have passed the examns. belonging to that period are given credit for the first academic year. At Durham a similar concession is made to students of science. In the Scottish and certain other Univs. attendance at lectures and examns. passed in other Univs. may be recognized by the Board of Studies, or Senate, after consideration of each case. For details, see Appendix XXII.

**GRADUATES.** The remission to graduates of any other approved University of 2 yrs. of the 4 yrs.' course is made by the Univ. of Dublin, of 1 yr. of the 3 yrs.' course by Bristol, London, and Sheffield, and the N.U.I. Similar remissions are made by Oxford and Cambridge; see their respective sections. At Oxford, graduates of a home Univ. and others, who can satisfy the Education Committee that they have received a good general education, are eligible to apply for admission to an approved course of special study and research for the degree of B.Litt. or B.Sc., and, if successful, may supplicate for the degree after completing 2 yrs. of residence. At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs.' course and the submission of a dissertation, obtain the degree of M.Litt. or M.Sc. At Dublin a graduate of any approved Univ. who possesses a degree the equivalent of Moderatorship may, after 1 yr. of advanced study and research, present himself for examn. for the degree of M.Sc. Certain Univs. which have not adopted ordinances to that intent are prepared to consider applications from graduates of other Univs. who desire to read for higher degrees for remission of standing or exemption from examinations.

### *Higher Degrees*

**M.A.** At Cambridge a Bachelor of Arts may, without further examn., proceed to the M.A. at the close of the 6th yr. after the end of his first term; at Oxford in the twenty-first term after matriculation; at Dublin 3 yrs. after passing the B.A. examn. At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs.' and 1 yr.'s standing respectively are admitted to the M.A. without examn.; other graduates must pass the M.A. examn. or (Sheffield) present a thesis. Other Univs. exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn., or both, of 1 yr. at Birmingham, Leeds, Belfast, and the N.U.I.; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester, and Wales; of 2 years from all graduates at Liverpool, London, and Reading. Graduates of approved Univs. can obtain the Mastership after 1 yr. of advanced study and research at Birm. and the N.U.I.; after 2 yrs. at Bris., Leeds, Liv., Lond., Manc., Reading (thesis required), Sheff., Wales. At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examn. At Leeds, Liverpool, and Manchester persons



who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

*M.Sc.* This degree is not conferred by Oxford or any of the Scottish Univs. At other Univs. it can be obtained by graduates of the Univ. under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' (Sheffield 1 yr.'s) standing who took first or second class Honours, without further test. At Leeds, by graduates, B.Sc., with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis required). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 1 yr.'s standing from B.Sc. with thesis (optional in Mathematics) and examn. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examn. (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students. In other Univs. which confer the degree, graduates of approved Univs. can obtain the M.Sc. on terms similar to those for the M.A.; at Durh. or Reading, after 2 yrs.' advanced study in the Univ.

Other titles of Mastership conferred by various Univs.—M.Litt., M.Com., LL.M., M.Mus., M.A.O. (Midwifery), M.Ch., Ch.M., M.Ch.Orth. (Orthopædic Surgery), M.D.S. (Dental Surgery), M.V.Sc., M.H. (Hygiene), M.Eng., M.Sc.Tech., M.Met., M.Arch., M.Ed.

*Ph.D.* All the Univs. of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for this degree must be at least 21 (Oxford, Camb., Brist., L'pool, Durh., Wales, Reading, St. Andrews, Dub.—no minimum age); must ordinarily be graduates either of the Univ. or of some other approved Univ.; must have pursued their studies at a Univ. or Univs. for a period of at least 3 yrs. (London—2, Reading and Dublin—not specified); must produce evidence of fitness for the proposed course of study and research. The course for the degree extends ordinarily over at least 2 years (Cambridge, Reading, Aberd., Glas., St. And. and N.U.I.—3 years). At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ. is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the Univ. of London, must have graduated in the Faculty of Theology, Arts, Music, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

*Litt.D. and Sc.D.* The Doctorate in Letters or in Science is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelors or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Univs. the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs.' standing from graduation at Dublin, Belf. (for D.Sc.), N.U.I. (for D.Sc. Pub.

Health) ; 4 yrs.' at Manchester, London (for D.Sc. and External D.Lit.) ; 5 yrs.' at Birmingham, Sheffield, N.U.I. (for D.Litt., D.Litt. Celt., D.Sc.), and the Scottish Univs. ; 6 yrs.' at Belfast (for D.Lit.), Durham (for D.Sc.), Leeds, Liverpool (5 yrs. from M.A. or, for D.Sc., from M.Sc. or Ph.D.), Bristol, Reading (4 yrs. from M.A. or M.Sc., 3 yrs. from Ph.D.) ; 5 yrs. from M.A., LL.M., M.Chir., M.Litt., M.Sc. or Ph.D., or 7 yrs. from M.B. at Cambridge ; 7 yrs.' at Oxford, London (for Internal D.Lit.) ; 10 yrs.', Univ. of Wales (3 yrs. from M.A., 2 yrs. from Ph.D.), Durham (for Litt.D.).

Graduates of other Univs. who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc., or B.Litt. ; Dub. B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Univs. of 5 yrs.' standing, who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish Univ., have submitted a satisfactory thesis or published work, and have, if required, passed an examn., are admitted to the Doctorate. At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London a candidate for the Doctorate may be specially exempted from the examn. for M.A. or M.Sc. ; at Manchester, from the examn. for M.Sc.

*D.Hy.* (Durh.) 2 yrs. from B.Hy. ; examn., thesis.

#### *Degrees in Divinity*

*B.D.* is conferred after examn. in the Scottish Univs. and the Univs. of Durham, London, Manchester, and Wales ; after examn. and submission of a thesis at Dublin ; after examn. and the submission of a dissertation and published works at Cambridge (examn. may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish Univ. who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ. who has taken a complete theological course of at least 2 yrs. in the Univ. conferring the degree ; at Dublin, a B.A. of 3 yrs.' standing ; at Durham, he must be a man who is either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology ; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theol. Colls. of the Univ. ; at Cambridge, a candidate must be M.A. or LL.M., and cannot be admitted to the degree until he is seven years from the Master's degree ; at Oxford, a candidate must be a M.A. or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ. during 6 terms.

*D.D.* In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon B.D.'s who took Honours in at least one subject, on presentation of a dissertation, followed by an examn., if the examiners so desire. At other Univs. it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examn., if the judges so desire). The requisite standing is, at Cam-

bridge and London, 5 yrs. from B.D. (or, for a Cambridge B.D., 12 yrs. from M.A.); Dublin, 8 yrs. from B.A.; Durham, 10 yrs. from B.A.; Manchester, 4 yrs. from B.D. (or 6 yrs. for B.D.'s of other Univs. who have studied for 2 yrs. at Manchester); Oxford, 14 yrs. from matricn, or, if he was admitted to the degree of B.D. as a graduate of another Univ., the candidate must have attained the age of 33; Wales, 6 yrs. from B.D.

### *Degrees in Medicine and Surgery*

*M.B., Ch.B.* The regulations for these degrees are practically uniform. Preliminary examinations satisfying the requirements of the General Medical Council (see Appendix XI.). Registration as a medical student by the G.M.C. is recommended. Satisfactory attendance during at least 5 yrs. at courses of study and hospital practice. Four examns (in some Univs. grouped as three or two). All examns. must be passed at the Univ. granting the degree, with the exception of the first, in Chemistry, Physics, and Biology (and, at St. Andrews, the second in Anatomy and Physiology), from which a candidate may be exempted if he has passed an equivalent examn at the Univ., or elsewhere (Scottish Univs., Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the Univ. for at least 3 yrs., except for the degrees as an External student of the Univ. of London, who must study for 1 yr. in a Univ. of the United Kingdom; or for 2 yrs., Scottish Univs., Leeds, Liverpool, Manchester; for 1 yr. College of Medicine, Newcastle-on-Tyne (Durham). The Univs. of Oxford and Cambridge exact 3 yrs' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Univ. of Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree.

*M.D.* Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs. from matriculation; Cambridge, M.B. of 3 yrs.', or M.A. of 4 yrs.' standing; Leeds, Sheff., M.B., 1 yr.'s standing; Belf., M.B. 3 yrs., B.A. or B.Sc. with M.B. 2 yrs.; Dublin, of M.A. standing). A dissertation is compulsory in almost all Univs., followed by an examn., unless the examiners pronounce the dissertation to be of such merit as to render further examn. unnecessary.

*Ch.M.* Regulations similar to those for M.D.

*D.Ch.* (Durh.). Candidate must have devoted, subsequently to having obtained a registrable qualification, 3 yrs. (including one at least in the Univ. and 6 months at least abroad) to the study of Surgery and ancillary subjects.

*Degrees in Dentistry, in Pharmacy* (London, Manchester, Glasgow), *and in Veterinary Science* are obtainable under somewhat similar conditions.

### *Degrees in Law*

*LL.B.* (or *B.C.L.*), obtainable with Honours or as an ordinary degree. In the Scottish Univs. candidates must have graduated

M.A. ; at Dublin, Durham (B.C.L. and LL.B.), National University of Ireland, B.A. For B.C.L. at Durham candidates must be of 2 yrs.' standing from B.A. ; for LL.B. the course is 3 yrs. for a candidate of Intermediate grade in Arts or Science. In Wales the course extends over 3 yrs. for a pass degree and 4 yrs. for an Honours degree. At Belfast graduates of this or of some other Univ. are eligible for the degree after a 2 yrs.' course in Law ; at Oxford, after a 2 yrs.' course, if they obtain Honours in the B.C.L. examination. At Sheffield a graduate of a Univ. of the United Kingdom who has attended for 1 yr. the intermediate course and for 1 yr. the Final course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Univs. there are two examns., Intermediate and Final. For B.L. v. Scottish Univs.

*LL.M.* Cambridge, Leeds, Liverpool, London, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manc., where a dissertation must be presented. For others, after examn. or (Camb.) dissertation, or both (Wales). Liverpool requires 2 yrs. of approved study.

*LL.D.* (or *D.C.L.*). By the Scottish Univs. the Doctorate is awarded only *honoris causa tantum*. Other Univs., unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn. ; in Dublin a candidate may elect to undergo examn. in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours LL.B. ; Belf., 3 yrs. from LL.B. if thesis ; Dublin, 3 yrs. from B.A. of Dub., Ox., or Camb. ; Manchester, 4 yrs. from LL.B. ; National Univ. of Ireland and Sheffield, 5 yrs. from LL.B. ; Oxford (*D.C.L.*), 5 yrs. from B.C.L. ; Cambridge, 8 yrs. from first degree ; Liverpool, 5 yrs. from LL.M. ; Leeds, 6 yrs. from LL.B. ; Durham (*D.C.L.*) and Wales, 10 yrs. from graduation or 3 yrs. from LL.M.

#### *Degrees in Music*

The degrees of Mus.B. (or B.Mus.) and Mus.D. (or D.Mus.) are conferred by the Univs. of Cambridge, Dublin, Durham, Edinburgh, London, Manchester, N.U.I., Oxford, Wales ; B.Mus. and M.Mus. Birmingham ; Mus.M. Cambridge and M.Mus. Wales.

*Mus.B.* At Birmingham, Cambridge, Dublin, Edinburgh, London, Manc., N.U.I., and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts ; with, at Birmingham, where the degree is an Honours degree, an examn. in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass Responsions. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at London, Dublin, or Durham. At Edinburgh students must study Music in the Univ. for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examns., including an exercise for the Final examn.

*Mus.M.* Conferred 3 yrs. (Wales—2 yrs.) after the Mus.B for original work and dissertation (Birmingham), after examn. and exercise (Cambridge, Wales).

*Mus.D.* Conferred at Cambridge on graduates not less than 30 yrs. of age, in recognition of distinction as Composer ; in Wales (D Mus.) on B.Mus. of 10 yrs.' or M.Mus. of 3 yrs.' standing on consideration of original compositions ; at Edinburgh on Mus B.'s of 3 yrs.' standing, after examn. as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum* ; at Dublin on Mus.B.'s after further examn. or practical test ; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs', Manchester 4 yrs.', Durham and N.U.I. 5 yrs.', after exercise and examn.

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DEANS OF FACULTIES. See under "General Information," Faculties.

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Payton, C. G., M.D., Ch.B.

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and Sr. Demr.

Barber, A. H., M.A., M.B., Ch.B.

Asst. Lectr. and Demr.

Lectrs. in App. Anat. :

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Ch.M., F.R.C.S

Barnie-Adshead, W. E., B.Sc.,  
M.B., Ch.B., F.R.C.S.

Maguire, C. C. W., M.D., M.R.C.P.

Demrs. :

Donovan, H., M.B., Ch.B.,  
F.R.C.S.

Barnie-Adshead, W. E., B.Sc.,  
M.B., Ch.B., F.R.C.S.

Wesson, A. S., M.D., M.R.C.P

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F.R.S., F.L.S. Mason Prof

Leach, W., Ph.D., M.Sc. Manc.

Chesters, C. G. C., M.Sc., B.Sc.  
Glas. Lectr.

Isaac, W. E., Ph.D. Wales  
Asst. Lectr.

1 Temp. Asst. Lectr.

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Adrian Brown Prof.

Norris, F. W., B.Sc., Ph.D. Lond.,  
A.I.C. Lectr.

### *Chemistry*

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Ph.D. Gött., M.Sc., F.R.S.

Mason Prof

Carter, S. R., D.Sc., F.I.C.  
Sr. Lectr. in Physical C.

Lectrs. :

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Wood, C. E., M.Sc., A.I.C.  
Nicholas, S. D., B.A. Ox., A.I.C  
Cooper, E. Ashley, D Sc Lond.,  
A.R.C.S., F.I.C.  
Pinkard, F. W., M Sc Wales, A.I.C.  
Hirst, E. L., D.Sc., M A. St. And  
Hickinbottom, W. J., D.Sc., Ph D.,  
A.I.C.  
Cox, E. Gordon, B.Sc. Bristol  
Porter, C. R., Ph.D. Lond.

Asst. Lectr.

*Classics*

Thomson, J. Oliver, O.B.E., M A.  
Birm. and Aberd., B.A. Camb.  
Prof (Latin).  
Dodds, E. R., B.A. Ox., M.A.  
Prof. (Greek).  
Hirst, Margaret E, M.A. Birm.  
and Camb. Lectr.  
Austin, R. P., B.A. Lond Lectr.  
MacNeice, F. L., B.A. Ox.  
Asst. Lectr.

*Commerce, v. also Acc., Fin.*

Florence, P. Sargent, M.Com ,  
M A. Camb , Ph D. Columb.  
Prof.

*Commercial Law*

Goitein, H., M.Com., LL.D. Lond.  
[Prof.]

*Dentistry, v. infra*

*Education*

Valentine, C. W., M.A., M.A.  
Camb., D.Phil. St. And.  
(supervisor of Students in  
*Psychol.* in Fac. of Sc.) Prof.  
Braddock, A. P., M.A., B.Sc.  
Lond., Hd. of Men's Divn.  
Hammond, Marjorie, M.A. Camb.,  
B A. Dub., Hd of Women's  
Divn.

Lectrs. :

Chapman, A. E , M A Camb  
Austin, Frances M., M.Sc. (Second-  
ary Dept.).

Buchanan, Freda M., M.A. Edin.  
Poulton, Ethel M., M.Sc., D. ès  
Sc Geneva.

Simpson, Lilian E., B.A.  
Cull, E. C., B.Sc. Lond.  
Stewart, Dorothy W., Mus.D Edin.  
Haddelsey, Muriel E., Bergman  
Osterberg Phy. Tg. Coll.  
James, B. C. L., M.A. Ox.  
Sturt, Mary, Ph.D., M.A. Ox.  
Tait, Elizabeth W , M A Edin.  
Fisk, Ethel, B.A. Camb.  
Thorburn, A., M A Edin.  
Bayley, Christabel.

Asst. Lectrs. :

Weitzman, Sophia, M.A , Ph.D.  
Manc.  
MacFarlane, Nancy A., M.A. Ox  
Medical Officers :  
Jordan, W. R., M.D.  
Braid, Frances, M.D.

*Engineering, Civil*

Batho, C., M.Sc., B Eng. Liv., D.Sc.  
McGill, M I.C.E. Beale Prof.  
Panton, R. C., M Sc., M.A., B.A.I.  
Dub. Lectr. (*Part-time*).  
Veal, T. H. P., B.Sc. Brist. Lectr.  
Coultas, H. W., B.Sc. Leeds,  
M.Sc. Lectr.  
Bateman, E. H, M.A Camb.,  
B.Sc.Eng. Lond. Lectr.  
Haywood, W., F.R.I.B.A. (Town  
Planning) Lectr.

*Engineering, Electrical*

Cramp, W., D.Sc., M.Sc. Tech.  
Manc., M Sc., M I.E.E. Prof.  
Lectrs. :  
Kipps, E. J., M.Sc., M.I.E.E.  
Sims, L. G. A., Ph.D., M.Sc.  
McElwee, N. M., B Sc. (Mining  
Elec. Eng.) Lectr.  
Havekin, T., B.Sc. Manc. Lectr.

*Engineering, Mechanical*

Lees, S., M.A. Camb., M Sc.  
Chance Prof.  
Porter, R. C., M.Sc. Vict , M.I.M.E.  
Lectr.

Boden, F. H., B.Sc. (Machine Design) Lectr.  
 Ellis, S. J., M.Sc. Lectr.  
 Sandifer, D. A. N., B.Sc. Lond., M.Sc. (Machine Design) Lectr.

*English*

[Prof.  
 De Selincourt, E., M.A., D.Litt. Ox., LL.D. Edin., F.B.A.  
 Hughes, A. M. D., M.A. Ox.

Reader.

Maitland-Smith, Isabella J., M.A. Aberd., B.A. Ox. Lectr.  
 Milner-Barry, Alda, M.A. Birm. and Camb. Lectr.  
 Buchanan, Freda M., M.A. Edin. Lectr.

Waterhouse, J. F., M.A. Ox. Lectr.  
 Dodds, Mrs. A. E., M.A. Ox. Pt.-time Lectr.

MacFarlane, Nancy A., M.A. Ox. Asst. Lectr.

*Finance*

[Mitsui Prof.  
 Smith, J. G., M.Com., M.A. Dub. Court, W. H. B., M.A. Camb., M.A. Harv.

Lectr. in Econ. Hist.  
 Walker, G. J., B.A. Ox. Asst. Lectr. in Econ.

*French*

Ritchie, R. L. Graeme, M.A., D.Litt. Aberd., D. de l'U. Paris, O.A. Prof.

Milne, Jane J., M.A. Edin., D.Litt. Lectr.

Bisson, L. A., M.A. Ox. Lectr.  
 Tait, Elizabeth W., M.A. Edin. Lectr.

Asst. Lectrs. :

Walton, T., M.A. Manc., L. ès L., D. de l'U. Paris.

Gemähling, J., L. ès L. Paris Asst. in Colloq. French.

*Geography*, v. also Educn.

Kinvig, R. H., M.A. Liv. Reader.  
 Lectrs. :

Fisk, Ethel, B.A. Camb.

Pelham, R. A., M.A. Wales.

McPherson, A. W., B.Sc. Glas. Asst. Lectr.

*Geology and Mineralogy*

Wills, L. J., M.A., Sc.D., Ph.D. Camb, F.G.S. Prof.

Raw, F., D.Sc. Lond., F.G.S. Lectr.

Shotton, F. W., M.A. Camb., F.G.S. Lectr.

Shaw, F. H., B.Sc. Lond., A.R.S.M. Asst. Lectr.

*German*

Sandbach, F. E., M.A. Birm. and Camb., Ph.D. Strass. Prof.

Strachan, L. R. M., M.A. Ox. Lectr.

Parker, E. H., M.A. Temp. Lectr.

*History*, v. also Educn.

Beazley, Sir Raymond, D.Litt. Ox., M.A., J.P. Prof.

Hawgood, J. A., M.A. Lond., Ph.D. Heid.

(Med. and Mod. Hist.) Reader  
 Lectrs. :

Sutcliffe, Dorothy, M.A. Manc. and Leeds.

Adams, H. P., M.A. Camb. (Ancient H.).

James, B. C. L., M.A. Ox.

Weitzman, Sophia, M.A., Ph.D. Manc. Asst. Lectr.

Styles, P., M.A. Ox. (Local Hist.) Spec Lectr.

*International History*

Stephens, J. S., M.A. Camb. Merttens Lectr.

*Italian*

[Serena Prof.  
 Richardson, Linetta de C., M.A.

*Law*

Smalley-Baker, C. E., M.A. Birm. and Ox., LL.B. Harvard

Barber Prof.

Readers :

Hargreaves, A. D., M.A., LL.B. Camb.

Verschoye, R. P., B.A., B.C.L. Ox.

Coley, A. H., LL.D.

Hon. Reader in Legal Ethics.  
 Camm, W. C. Lectr.



Dickson, A. W., LL.B., LL.B.  
Lond. Lectr.

Norris, C. S., M.A. Ox.  
Lectr. in Trust Accounts.

*Mathematics*

Watson, G. N., Sc.D. Camb.,  
D.Sc. Lond., M.Sc., F.R.S.,  
F.R.A.S., F.I.P. Mason Prof.

Lectrs.: [F.R.A.S.]

Preece, C. T., M.A. Camb.,  
Colomb, Ruby, M.A. Lond.

Calderwood, Nora I., Ph.D., M.A.,  
B.Sc. Edin

Lumsden, T. A., M.A., B.Sc. Edin.,  
F.R.A.S.

Asst. Lectr.:

Kuttner, B., B.A. Camb.

*Medicine, v. infra*

*Metallurgy* [Feeney Prof.]

Hanson, D., M.Sc., D.Sc. Liv.

Harris, H., M.Sc., F.C.S. Lectr.

Allen, N., M.Met. Lectr.

Jones, J. W., M.Sc. Lectr.

*Mining, Coal, and Metal*

Moss, K. N., O.B.E., M.Sc.,  
M.I.Min.E., F.G.S. Prof.

Varvill, W. W., B.Sc. Durh.,  
M.I.M.M., M.I.M.E.

Lectr. in Metal M.

Garrett, J. G., B.Sc., M.I.Min.E.  
Lectr. in Surveying.

Hancock, W., Ph.D., M.Sc., F.G.S.,  
M.I.M.E.

Lectr. in Mine Rescue.

Needham, L. W., M.Sc.

Lectr. in Coal Treatment.

*Mining Research Laboratory*

Haldane, J. S., C.H., LL.D., M.D.,  
F.R.S., Hon. Prof. and Dir.  
of Research Lab.

Graham, J. I., M.A. Camb., M.Sc.  
Lond., A.R.C.Sc.I., A.I.C.

Depy. Dir. of Research.

*Music, v. also Educn.*

Bantock, Sir G., M.A., Mus.D.  
Edin., F.R.C.M.

R. Peyton Prof.

Blackall, A. K., F.R.C.O. Lectr.

*Oil Engineering and Refining*

Nash, A. W., M.Sc., F.C.S.,  
M.I.Mech.E., M.I.P.T. Prof.

Lectrs.:

Bowen, A. R., M.Sc., Ph.D., F.I.C.

Clark, L. W. Woodhouse, B.Sc.  
Vict.

Mason, J., M.Sc., D.Phil. Ox  
Hon. Research Invest.

*Philosophy, Mental and Moral*

Russell, L. J., M.A., B.Sc., D.Phil.  
Glas. Prof.

Gibson, A. B., M.A. Ox., B.A.  
Melb. Lectr.

*Physics*

Smith, S. W. J., M.Sc., M.A.  
Camb., D.Sc. Lond., A.R.C.S.,  
F.I.P., F.R.S. Poynting Prof.

Lectrs.:

Shakespeare, G. A., D.Sc., M.A.  
Camb., B.A., B.Sc. Lond. (Spl.  
Lectr. in Expl. P.).

Barlow, G., D.Sc. Birm., Wales,  
and Lond., F.Inst.P.

Ibbs, T. L., Ph.D., D.Sc.

Young, J., B.Sc. Lond., A.R.C.S.,  
F.R.A.S.

Dee, A. A., B.Sc. Lond., D.I.C.,  
A.R.C.S.

Johnson, M. C., M.A. Camb., D.Sc.,  
F.R.A.S.

Harrison, G. E., Ph.D.

*Physiology*

Daly, I. de Burgh, M.A., M.D.,  
B.Ch. Prof.

Thorpe, W. V., M.A., Ph.D.

Lectr. in Biochemistry.

Macgregor, R. G., B.A., B.M.,  
Ch.B. Lectr.

Berry, J. L., M.B., Ch.B. Lectr.  
Peat, S., Ph.D., B.Sc.

Lectr. in Biochemistry.

Walker, Hilda, M.B., Ch.B.

Special Lectr.

Strangeways, Dorothy H., M.A.  
Res. Asst. in Tissue Culture.

*Psychology, v. Educn.*

*Russian* [Prof.  
Kononov, S., M.A., B.Litt. Ox.

*Spanish*  
Conroy, R., M.A. N.U.I. Lectr.  
Parker, Adelaide, B.A. Liv.

Asst. Lectr.  
*Zoology and Comp Anatomy*  
Fox, H. Munro, M.Sc., M.A. Camb.  
Mason Prof.

Newth, H. G., M.Sc., A.R.C.S.,  
D.I.C., F.Z.S. Lectr.  
Gunn, D. L., B.Sc. Wales Lectr.  
Johnson, Minnie L., B.Sc.  
Asst. Lectr.

#### \* Medicine

(for subjects of first 2 yrs.—Anat,  
etc., v. *supra*).

Dean:—A. Stanley Barnes, D.Sc.,  
M.D., F.R.C.P.

*Bacteriology*, v. Path.

*Ear, Nose and Throat, Diseases of*  
Woodman, E. M., M.S., F.R.C.S.  
Lectr.

*Forensic M. & Toxicology*  
Lloyd, B., M.B., B.S., F.R.C.S.  
Prof.

Walker, C., M.D., B.Sc. Asst.

*Hygiene and Public Health*, v.  
also Chem.

Robertson, Sir John, C.M.G.,  
O.B.E., M.D., LL.D. Edin.,  
B.Sc. Prof.

Lewis, C. J., M.D., D.Sc.,  
F.R.C.P.E. Assoc. Prof.

Auden, G. A., M.D., M.A., Ph.D.,  
D.P.H. Camb., F.R.C.P.  
(Hygiene) Asst.

*Infant Hygiene and Dis. of  
Children* [Prof.  
Parsons, L. G., M.D. Lond.,  
F.R.C.P. (also Clin. Lectr.).

*Materna Medica* [Lectr.  
Kneale, J. C., M.B., Ch.B., M.P.S.  
Greenwood, F. R., M.D., B.S.  
Lond., M.R.C.S. Demr.

*Medicine*  
Wynn, W. H., M.D., M.Sc. Lond.,  
F.R.C.P. Prof.

Emanuel, J. G., M.D., F.R.C.P.  
Prof.

Thomson, A. P., M.C., M.D.,  
F.R.C.P.

Asst. and Lectr. for  
Dental Students

Bulmer, E., M.D., M.R.C.P.  
Lect. for Dental Students.

#### *Mental Diseases*

Hughes, P. T., M.B., Ch.M. Edin.,  
D.P.H. Lond. Lectr.  
Joint Board of Research (Univ.  
and City):

Pickworth, A. F., B.Sc., M.B.,  
B.S., A.I.C. Director.

*Midwifery and Dis. of Women*  
Whitehouse, H. Beckwith, M.S.  
Lond., Ch.M., F.R.C.S. Prof.

Graham, Lewis, M.S. Lond.,  
F.R.C.S. Lectr.

Lloyd, Hilda N., B.Sc., M.B.,  
Ch.B., F.R.C.S. Asst.

#### *Ophthalmology*

Evans, J. J., M.D., F.R.C.S. Lectr.

#### *Pathology and Bacteriology*

Wilson, G. H., M.D. Glas.  
Prof. of Path.

Lamb, F. W. M., M.D., Ch.B.,  
M.R.C.S. Lectr. in P.

Lewis, C. J., M.D., D.Sc. Edin.,  
F.R.C.P.E.

Lectr. in Advanced B.  
Shrewsbury, J. F. D., M.B., Ch.B.,  
D.P.H. Lectr. in B.

Bulmer, E., M.D., M.R.C.P. Asst.  
Wesson, A. S., M.D., M.R.C.P.

Asst.  
Stammers, A. F., L.D.S.

Demr. for Dental Students.  
Strangeways, Dorothy H., M.A.

Res. Asst. in Tissue Culture.

*Pharmacology*, v. Therapeutics

\* Exclusive of 40 clinical lecturers and tutors on the staffs of hospitals.

- Radiology* [Lectr. Humphreys, H. F., M.B., Ch.B.,  
Black, Harold, M.D., M.R.C.P. M.D.S., L.D.S.  
Brailsford, J. F., M.D., Ch.B., Lectr. (D. Anat. and Physiol.)  
M.R.C.S., L.R.C.P. Demr. Wellings, A. W., M.D.S., L.D.S.  
Lectr. (D. Histol., etc.).
- Surgery*  
Gemmell, W., M.A., M.B., Ch.B., Stammers, A. F., L.D.S.  
F.R.C.S. Prof. Demr. (D. Histol., etc.).  
Barling, S. G., C.M.G., Ch.M., M.S., Knott, W. M., L.D.S.  
F.R.C.S. Prof. Lectr. (D. Mechs. and  
Raison, C. A., M.B., Ch.B., F.R.C.S. Prosthetics).  
(S. for Dental Students) Madin, W. T., B.D.S., L.D.S.  
Lectr. Lectr. (D. Surgery, etc.).  
Sampson, H. H., M.B., Ch.B., Broderick, R. A., D.S.O., M.B.,  
F.R.C.S. Asst. Ch.B., M.D.S., L.D.S.  
Lectr. (D. Bacteriology).  
*Surgery, Operative* Parrott, A. H., O.B.E., M.D.S.,  
Barnes, F., M.S., F.R.C.S. L.D.S.  
*Surgery, Orthopaedic* [Lectr. Lectr. (D. Mat. Med. and  
Dunn, N., M.A., M.B., Ch.B. Therap.).
- Therapeutics, Pharmacology and*  
Wilkinson, K. D., O.B.E., M.D., 23 Clinical lecturers and tutors on  
F.R.C.P. Prof. the staff of the Dental Hos-  
Smellie, J. M., M.D. Edin., pital.  
M.R.C.P. Lectr. Huxley Lecturer  
1933—Sir Arthur Salter, K.C.B.
- Dentistry*  
v. also Med., Path., Surg. University Extension  
Matthews, G. F. C., B.D.S., L.D.S. Tutors: Macalpine, B. I.; Studd,  
Lectr. (Orthod.). E. J. (Jt.-Secs.), and 12 others.

## AFFILIATED INSTITUTIONS

**MIDLAND INSTITUTE.** Students are admitted to Intermediate Arts examn. as Internal students.

**SALTLEY TRAINING COLLEGE.** Students taking the 4-yr. course are admitted to the Intermediate Arts examn. as Internal students. *Principal*—Rev. F. T. Cooper, M.A. Camb.

**HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES.** Students can take the 2nd and 3rd yrs. for the B.A. partly in their own Colls. *Principals*—Handsworth: Rev. W. F. Lofthouse, D.D.; Lichfield: Rev. E. H. Ward, M.A.

## GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. The Faculties of Arts, Medicine, and Law are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £850,000 at Edgbaston on a site of 100 acres.

FACULTIES : Science, Arts, Medicine, Commerce, Law. Deans : Prof. W. Stiles, Prof. Ritchie, Dr. Stanley Barnes, Prof. J. G. Smith, Prof. Smalley-Baker.

*Departments* of Education (training for teaching in primary, secondary, and continuation schools); Malting and Brewing and other Industrial Fermentation Processes; Social Study; Industrial Certificates. Connected with the Medical Faculty is a *School of Dentistry*.

LIBRARY, about 200,000 vols. *Special Collections* : Sargant, rich in French economic literature of about 1830-1860; Collings, some 350 books on agric. and land problems; Bunce, rich in nineteenth-century biography; Corbett, county, especially Shropshire, history; Holliday and others, art and architecture. MUSEUMS, Anat., Dent, Geol., Zool., Mining.

LABORATORIES : Chemical (special organic, phys., electro-chem., analytical, and public health depts.); Engin., Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab., expl. coal-mine and oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat, and power; Physiol.; Pathol.; Cancer Research, Research in Mental Disease; Bacteriol. A small OBSERVATORY is attached to the dept. of Physics. HOSPITALS (700 beds) available for clinics—General, Queen's, and many special.

ADMISSION. See Appendix XXII.

DEGREES. B.A., B.Mus., M.A., M.Mus., D.Litt.; B.Sc. (in Pure Science, in Engineering—Mech., Civ., Elec.; in Oil Engin. and Refining; in Industrial Fermentation; in Metallurgy, or in Mining—Coal and Metal), M.Sc., D.Sc.; M.B., Ch.B., B.D.S., M.D., M.D. (State Med.), Ch.M., M.D.S.; B.Com., M.Com.; LL.B., LL.M., LL.D.; Ph.D. (in any Faculty).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other approved Univs., who are, under certain conditions, admitted to the 1 yr.'s courses for the M.A. and M.Sc. and to 2 yrs.' courses for the B.Sc. (courses in technical subjects), B.Com., Ph.D. (v. p. 13), M.D. or Ch.M.

B.A. Honours schools in Classics, Engl. Lit., French, German, Italian, Spanish, Hist., Social and Polit. Sc., Philos., Maths., Music, Geography, Economics.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science. There is a 4 yrs.' B.Com. course for students entering at Inter. B.Sc. standard. They "qualify" for the ordinary B.Sc. at the end of 2 yrs., subsequently completing 2 yrs. in the Fac. of Com. There is also a 3 yrs.' joint course in Mining and Commerce leading to the B.Com. for those who wish to enter the commercial side of the Mining industry.

The B.Sc. with Honours requires 3 yrs. after the Intermediate standard has been reached. B.Sc. Hons. schools in all subjects in the Fac. The B.Sc. courses in Engin. and Hons. Courses in Oil Engin. and Refining, in Mining, and in Metallurgy cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox. Dipl. in Scientific Engin. and Mining are eligible, subject to certain provisos, for the B.Sc. in Engin., Mining, or Metall. after 2 yrs.' study in Birmingham.

Special course in Spanish for students of applied science; 2 lecture hours a week for 2 sessions.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein

as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degree by devoting 7 yrs. instead of 6 to study in the Univ.

Candidates for the B.Mus. (Honours) must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music, and power of performance on some musical instrument.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Litt., M.Mus., D.Sc., or LL.D. may be taken 3 yrs. after the M.A., B.Mus., M.Sc., or LL.M.

*Advanced Standing.* Candidates who, before admission, pass certain examns. of other approved Univs. and Examining Bodies may be permitted to take the final examn. for the B.Sc. (Hons.) at the end of their 2nd yr., and to do advanced or research work in their 3rd yr.

*Diplomas.* Art Instructor's (2 yrs.' course), for students of the Municipal School of Art; *Brewing* (3 yrs.' course; Post-graduation 1 yr.); Graduates' *Commerce* (1 yr.'s course), open to graduates of any approved Univ. who have passed an adequate test in accounting; *Mining*; *Oil Engin.* and *Refining*; *Social Study* (2 yrs.' or, Higher Dipl., 3 yrs.' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); Diploma in Education (1 yr.'s course), for graduates of a Univ. of the U.K. or others equally qualified; *Dental Surgery* (6 yrs.); *Public Health* (1 yr.'s course), not less than 2 yrs. after obtaining registrable qualification in Med., Surg., and Midw.

A Joint *Coal-mining* Diploma of the Univs. of Oxford and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

*Certificates* for Brewers and Maltsters (2 yrs.).

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Birmingham Commercial Coll., etc.

**RESEARCH.** A joint standing committee of members of council and members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Gov. agencies and external bodies. Trust Funds amount to £10,000. There are special committees for research in Mental Diseases and in Cancer.

**FEES.** Matricn., £2. Tuition for B.A., £75; B.Sc., £75-£96; Engin., £190; Mining, £140; Metall., £140; Med., including Hospl. fees, £196; LL.B., £29. Examsn. Interim, and Final, for first degree, £10, except in Med., £21, and Engin., £12: 10s. Laboratory research fees, £15 to £30.

**POSTGRADUATE AND RESEARCH SCHOLARSHIPS.** 11 in Sci.; 11 in Arts; 2 in Com.; 1 in Law; also a Travelling Studentship (£300 for 1 yr.) biennially for research in Path.; 1 postgrad. scholarship (£90) every 3rd yr. in Facs. of Med., Com., Law. Some of these are open to graduates of other Univs., but prefer-

ence is always given to Birmingham graduates. For the James Watt Fellowship and Research Studentships in Oil Eng., etc., v. App. XXIII. 4 and 12.

**RESIDENCE.** For women there is a Hall of Residence—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2½ acres. For men—Chancellor's Hall (Warden), Augustus Road, Edgbaston (96 students), with grounds of 7 acres; Queen's College (Principal), Somerset Road, Edgbaston (45 students). The cost of board and lodging is from £2 2s upwards a week.

**AN APPOINTMENTS BOARD** (Secy.—The Registrar) has been established.

**GUILD OF GRADUATES.** Six representatives serve on the Univ. Court of Governors, one of whom is also a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

**UNIVERSITY EXTENSION** work includes Lectures and Tutorial Classes in the city of Birmingham and the Midland area. The Tutorial Classes are under the control of a Jt. Committee of the Univ. and the W.E.A.

**PUBLICATIONS.** *Calendar* (Nov.), 2s.; Faculty and Departmental syllabuses (during the Summer Term); *Careers in Science*; *Report of University Research Committee*, including a bibliography of the research work published during the session (Feb.); students' magazine, the *Mermaid*.

## THE YEAR 1931-32

**BENEFACTIONS AND GIFTS.** Hugh Morton benefaction—£40,000 from residue of estate (not yet completed) in addition to £25,000 previously noted; J. G. Chidlaw, by legacy of residue (for Scholarships in Science), amount not yet determined.

**NEW BUILDINGS.** The reorganized and extended Mining Dept. with special labs. opened; the new Research Lab in Civ. Engineering brought into use.

**HOSPITAL CENTRE SCHEME AND MEDICAL SCHOOL OF THE UNIVERSITY.** As considerable controversy had arisen over the Hospital Centre Scheme, the Executive Board of the Centre early in 1932 invited the Lord Mayor to summon and preside over a conference of representatives of the two general and teaching hospitals concerned and of the Centre Board, together with four independent representatives nominated by himself, to review the whole hospital position in Birmingham. This conference, after prolonged examination of the subject matter, reported on Nov. 21 a review of the position with two (amongst other) recommendations of great importance: (1) that the two teaching hospitals should be amalgamated under a single Board of Management, and that this single Board should ultimately also control the management of the new Centre Hospital to be erected on the Edgbaston site; (2) that the Executive Board of the Centre should, as from Jan. 1, 1933, proceed with bringing into existence the first instalment of their scheme for a full working and teaching hospital of roughly 500 beds, together with the Medical School of the Univ. to be transferred to the new site of the Centre.

These two recommendations are an endorsement of the two main features of the scheme of the Executive Board of the Hospital Centre. It may be assumed that in 1933 practical effect will be given to these and other recommendations.

**EXTRA-MURAL WORK.** The Joint Ctee. of Univ. and W.E.A. has extended and consolidated its work in B'ham and adjoining counties. A successful summer school was held.

**CHANGES IN REGULATIONS.** The Hons. degree in Biochemistry of Fermentation has been discontinued, and a Pass and an Honours degree with Industrial Fermentation as a principal subject has been substituted. Four years are now required for the B.Sc. degree with Anatomy and Physiol., and both subjects must be taken together.

**RETIREMENTS.** Profs. Boulton (Geol.), Morrison (For. Med.). **DEATHS :** Prof. Bullington (Surgery), Haslam (former Dean, Fac. of Med.).

**STUDENTS.** Full-time : total 1531, including 180 graduates. Part-time : total, 202, including 41 graduates.

**DEGREES.** B.A., 94 ; B.Sc., 124 ; M.B., Ch.B., 20 ; B.D.S., 1 ; B.Com., 14 ; LL.B., 19 ; M.A., 10 ; M.Sc., 10 ; LL.M., 1 ; Ph.D., 17 ; D.Sc., 2 ; M.D., 1 ; B Mus., 2.

# UNIVERSITY OF BRISTOL

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. WINSTON S CHURCHILL, C.H., LL.D., M.P.  
(*ex officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—The Rt. Hon. HENRY HOBHOUSE, M.A., LL.D. ;  
The Rt. Rev. the LORD BISHOP OF BRISTOL, D.D., LL.D. ;  
STANLEY H BADOCK, LL.D. ; HIATT C. BAKER, LL.D.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox, LL.D.

PRO-VICE-CHANCELLOR—Prof. J. F. DOBSON, M.A.

TREASURER—STANLEY H. BADOCK, LL.D.

LIBRARIAN—W. L. COOPER, M.A. Ox.

HON. MEDICAL LIBRARIAN—GEORGE PARKER, M.A., M.D.

SECRETARY AND REGISTRAR—WINIFRED SHAPLAND.

BURSAR—I. FOX.

## PROFESSORS, LECTURERS, ETC.

*Agriculture*, v. also Associated  
Instns.

Barker, B. T. P., M.A. Camb. (A.  
Biology) Prof.  
Boutflour, R, M.Sc. Durh. Reader.

*Anatomy*

Fawcett, E., M.D., C.M. Edin.,  
F.R.S. Prof.  
Moore, C. A, M.S., M.B. Lond.,  
Ch.M., F.R.C.S. (Surg. and  
Applied Anat) Lectr.  
Stock, W. S. V., M.B., B.S. Lond.,  
M.B, Ch.B, F.R.C.S. Demr.  
Llewelyn, Gwladys R., M.Sc.  
Demr.

Perry, C. B., M.D., Ch.B., M.R.C.P.  
Demr.

FitzGibbon, G. M., M.D. Lond.,  
F.R.C.S. Pt.-time Demr.

*Anthropology*

..... Lectr.

*Aramaic, etc.*, v. Orient. Langs.

*Art*

Briggs, M. S., F.R.I.B.A.  
Sp. Lectr.

*Bio-Chemistry*, v. also Assoc.  
Instns.

Nierenstein, M., Ph.D. Berne,  
D.Sc. Gén. Reader.

*Botany*, v. also Assoc. Instns.

Darbshire, O. V., M.A. Ox., Ph.D.  
Kiel Melville Wills Prof.  
Skene, MacG., D.Sc. Aberd.

Reader.  
Bracher, Rose, M.Sc., Ph.D.  
Lectr.

Cook, W. R. I., Ph.D. Lond.  
Asst. Lectr.  
..... (Systematic B.) Sp. Lectr.  
i Recognized Teacher in Garden-  
ing.

*Chemistry*, v. also Assoc. Instns.

Francis, F., D.Sc. Manc., Ph.D.  
Erl., F.I.C. A. C. Pass Prof.  
Davis, O. C. M., D.Sc. Lond., D.Sc.,  
M.D., Ch B., M.R.C.P. (Med.  
C.) Reader.

Lecturers :

Russell, E., B.Sc. Lond., F.I.C.  
(Hygienic C.).



- Rixon, F. W., M.Sc. Manc., Ph.D.  
Gies., M.A., F.I.C.
- Taylor, Millicent, D.Sc., F.I.C.
- Menzies, R. C., Ph.D. St. And.,  
F.I.C.
- Malkin, T., B.Sc. Lond., Ph.D.  
Manc.
- Maxted, E. B., D.Sc. Lond., Ph.D.  
Berl., F.I.C. (Catalysis).
- Research Assts. :  
King, Annie M., Ph.D.  
Gomm, A. S., Ph.D.
- Chemistry, Applied*, v. Engin.
- Chemistry, Physical*  
Garner, W. E., M.Sc. Lond., D.Sc.  
Birm. Leverhulme Prof.
- Travers, M. W., D.Sc. Lond.,  
F.R.S.  
Research Fellow in Appl.  
Phys. C. and Hon. Prof.
- Johnson, C. H., B.Sc., Ph.D.  
Lond. Asst. Lectr.
- Classics* [H. O. Wills Prof.  
Dobson, J. F., M.A. Camb. (Greek)  
Beare, W., M.A. Dub. (Latin) Prof.  
Pitman, H., M.A. Ox. Lectr.  
Eichholz, D. E., M.A. Camb.  
Asst. Lectr.
- Dentistry*, v. *infra*
- Domestic Science*, v. also Assoc.  
Instns.
- Whitaker, Ruth Lectr.  
Clarke, E. Gladys, O.B.E. (Dom.  
Econ.) Lectr.
- Economics*  
Whyte, W. H., M.A. Leeds  
Reader.
- Burrows, H. R., M.C., M.Com.  
Leeds Lectr.
- Education*, v. also *infra* Assoc.  
Instns.
- ..... Prof.  
Foster, T. S., M.A. Ox., F.R.A.I.,  
Master of Method. Reader.
- Lecturers :  
Whitwill, Gladys C., M.A.  
Childs, E. C., M.A., B.D. Lond.
- Nicholson, J. H., B.A. Ox., M.A.  
Cott, H. B., M.A. Camb.  
Pilley, J. G., B.A. Ox.  
Warrell, A., F.R.C.O (Music).  
Morice, Enid G., M.A. Camb.  
Pye, Margaret W., B.A., Ph.D.  
Lond
- Green, T. L., B.Sc. (Hyg.).  
Butcher, Emily E., M.A.
- Asst. Lectr.  
Nixon, Doreen G. C., M.B., B.S.  
Lond, M.R.C.S., L.R.C.P.  
(Hyg.) Recogd. Teacher.  
Skinner, F. (Art) Recogd. Teacher.
- Engineering*, v. *infra*  
*English* [Winterstoke Prof.  
Crofts, J. E. V., B.A., B.Litt. Ox.  
Birkhead, Edith, M.A. Liv. Lectr.  
Needham, H. A., M.A. Birm.,  
D. de l'U. Paris Lectr.
- Tucker, Susie I., B.A. Ox.  
Asst. Lectr.
- French*, v. also Engin. [Prof.  
Boillot, F. F., M.A. Shef., L. ès L.  
Perkins, B. M. N., M.A. Camb.  
Lectr.
- Warne, F. J., B.A. Lond. Lectr.  
Cattan, L., L. ès L. Lecteur.
- Geography* [Reader.  
Jervis, W. W., M.Sc. Durh., F.G.S.  
Kendall, O. D., M.A. Camb. Lectr.  
Jones, S. J., M.A. Wales  
Asst. Lectr.
- Geology*  
Reynolds, S. H., M.A., Sc.D.  
Camb. C. Wills Prof.
- Turner, H. W., M.A. Ox., F.G.S.  
Lectr.
- Smith, S., M.A. Camb., D.Sc.  
Durh. Lectr.
- Wallis, F. S., D.Sc., Ph.D.  
Asst. Lectr.
- German*, v. also Engin.  
Closs, A. M., M.A., Ph.D. Graz.  
Hd. of Dept. Lectr.
- Barber, C. C., M.A. Ox., Ph.D.  
Giessen Asst. Lectr.
- History*  
Mowat, R. B., M.A. Ox. Prof.

- Staveley, May C., M.A. Dub., M.A. Lectr.  
 MacInnes, C. M., M.A. Ox. (Imperial H.) Reader.  
 Butcher, Emily E., M.A. Asst. Lectr.  
 James, R. I., B.A. Ox. Asst. Lectr.  
*Italian*  
 Cellini, B., D.Litt Genoa Lectr.  
*Law*  
 Lewis, M. M., M.C., M.A., LL.B. Camb Prof.  
 Veale, E. W. W., LL.D. Lond. Lectr.  
 Wilshire, A. M., M.A. Ox., LL.B. Lond. (Comm. L.) Lectr.  
 Bain, K., LL.B. Lond. Asst. Lectr.  
*Maths., Applied*  
 Boulton, E. S., M.A. Camb., B.Sc. Lond. Prof.  
 Newing, S. T., B.Sc. Lond., A.R.C.S. Asst. Lectr.  
*Mathematics, Pure*  
 Hassé, H. R., M.A. Camb., D.Sc. Manc. H. O. Wills Prof.  
 Fraser, P., M.A. Camb., M.A., B.Sc. Aberd. (Geom.) Reader.  
 Todd, H., B.A. Camb. Lectr.  
 Vint, J., M.A. Belf. Lectr.  
 Hodge, W. V. D., M.A. Camb. and Edin. Lectr.  
 Linfoot, E. H., D.Phil. Ox. Asst. Lectr.  
 White, Mary J., B.Sc. Research Asst.  
*Medicine, v. infra*  
*Military Subjects*  
 Young, N. C. S., Capt., Roy. Warwickshire Regt Sp. Lectr.  
*Mining, v. Engin.*  
*Music, v. Educn.*  
*Oriental Languages*  
 O'Leary, De L., M.A., D.D. Dub. (Aramaic and Syriac). Sp. Lectr.  
*Philosophy*  
 Field, G. C., M.A., B.Sc. Ox. Prof.
- Carré, M. H., M.C., M.A. Ox. Lectr.  
*Physics, v. also Phys. Chem. and Engin.—Applied Ch.*  
 Tyndall, A. M., D.Sc. Lond. and Brist., F.I.P.  
 H. O. Wills Prof.  
 Lennard-Jones, J. E., D.Sc. Manc., Ph.D. Camb. (Theoret. P.) (Till Aug 1933) Melville Wills Prof.)  
 Mott, N. F., M.A. Camb. (Theoret. P.) (From Aug. 1933)  
 Skinner, H. W. B., M.A., Ph.D. Camb.  
 H. H. Wills Research Fellow and Lectr. (Spectrosc.).  
 Jackson, L. C., M.Sc. Lond., Ph.D. Leiden  
 H. H. Wills Research Fellow.  
 Lecturers:  
 Williams, Iltyd, M.Sc. Wales.  
 Piper, S. H., D.S.O., D.Sc. Lond., F.I.P.  
 Sucksmith, W., D.Sc. Leeds.  
 Potter, H. H., Ph.D. Lond., B.Sc.  
 Powell, C. F., B.A., Ph.D. Camb.  
 Webster, H. C., Ph.D. Melb. Research Asst.  
*Physiology*  
 Brocklehurst, R. J., M.A., D.M., B.Ch. Ox. Prof.  
 Lecturers:  
 Wiltshire, Marion O. P., D.Sc.  
 Irving, J. T., M.A., M.D., Ph.D. Camb., M.R.C.S., L.R.C.P.  
*Theological Subjects*  
 For Univ. Staff v. *infra* Assoc. Instns.  
*Zoology*  
 Yonge, C. M., D.Sc. Edin. Prof.  
 Henderson, W. D., M.A., B.Sc. Aberd., Ph.D. Freib. i/B. Reader.  
 Asst. Lectrs.:  
 Sloane, J. F., B.Sc. Glas.  
 Smith, H. G., B.Sc. Glas.

**Engineering**

(In the Technical College of the  
Society of Merchant Venturers)

*Applied Chemistry* [Lectr.

Andrews, W. A., B.Sc. Birm., A.I.C.

*Automobile Engineering* [Prof.

Morgan, Wm., B.Sc., M.I.A.E.

*Civil Engineering*

Pippard, A. J. S., D.Sc. Prof.

Francis, W. E., B.Sc. Wales Lectr

Elgood, W. N., B.Sc. St. Andr. „

*Drawing*

Baker, J. W. Instr.

Mountney, C. F. Instr.

*Engineering Comm. Subjects*

Griffin, A. Lectr.

*Electrical Engineering*

Robertson, D., D.Sc. Glas.,

M.I.E.E. Prof.

Holmes, S. Lectr.

Chard, F. de la C., B.Sc. Lond.

Asst. Lectr.

*Mechanical and Mining En-  
gineering*

Robertson, A., D.Sc. Edin. Prof.

Watson, F. R. B., B.Sc. Edin.

Lectr. (Mech. E.).

Dearden, W. H., M.Sc. Manc.

(Metall.) Lectr.

Morrison, J. L. M., B.Sc.

Lectr. (Mech. E.).

Newport, A. J., B.Sc.

Research Asst. (Mech. E.).

*French and German for Engin.*

*Students* [Asst. Lectr.

Bennett, Edith, M.A. Birm.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

Stock, W. S. V., M.B., B.S. Lond.

and Brist., F.R.C.S. (Hd. of

Dept.) Lectr. (C.).

Corfield, C., M.D. Durh. (C.).

Tutors.

Logan, H. B., M.R.C.S., L.R.C.P.

(C.)=Clinical Lectr.

Moore, L. A., M.B., Ch.B.

2 Recognized Teachers.

*Bacteriology*, v. Pathology

*Diseases of the Skin*

Wills, W. K., O.B.E., M.A., M.B.,

B.Ch. Camb. (C.).

Kingston, S. H., M.B., Ch.B.,

D.P.H. (C.).

Burgess, N., M.A., M.D., B.Ch.

Camb., M.R.C.P. (C.).

*Fevers*

Peters, B. A., M.D., B.Ch., D.P.H.

Camb. (C.).

*Forensic Med. and Toxicol.*

Davis, O. C. M., D.Sc. Lond. and

Brist., M.D., Ch.B., M.R.C.P.

(Hd. of Dept.) Lectr.

*Laryng., Rhin., and Otology*

Wright, A. J. M., M.B., B.S. Lond.,

M.B., Ch.B., F.R.C.S.

Lectr. (Hd. of Dept.) (C.).

Watson-Williams, E., M.C., M.B.,

B.Ch. Camb., M.B., Ch.M.,

F.R.C.S.Ed. (C.).

Scarff, G. R., M.B., Ch.B., F.R.C.S.

Ed. (C.).

James, J. A., M.D., B.S. Lond.,

M.B., Ch.B., F.R.C.S. (C.).

1 Recognized Teacher.

*Materia Med. and Practical  
Pharmacy*

Davis, O. C. M., D.Sc. Lond. and

Brist., M.D., Ch.B., M.R.C.P.

Reader.

2 Recognized Teachers in Pract.

Pharm.

*Medicine*, v. also Path., Pharm.

Nixon, J. A., C.M.G., B.A., M.D.,

B.Chir. Camb., F.R.C.P.

Clinical Dean and Prof.\*

Charles, J. R., M.A., M.D. Camb.,

F.R.C.P. (C.).

..... Clinical Dean (C.).

Clarke, R. C., O.B.E., M.B., Ch.B.,

M.R.C.P. (C.).

Herapath, C. E. K., M.C., M.D.,

B.S. Lond. (C.).

\* Director of Clinical Studies.

Todd, A. T., O.B.E., M.B., Ch.B.  
Edin., M.R.C.P. (C.).

Carleton, H. H., M.A., M.D., B.Ch.  
Ox., M.R.C.P. Sr. Tutor (C.).

Birrell, J. A., M.D., B.S. Lond.,  
M.R.C.P. Jr. Tutor (C.).

Sutton, G. E. F., M.C., M.D. Lond.,  
M.R.C.P. Jr. Tutor.

1 Recognized Teacher.

*Mental Diseases* [(C.).

White, E. B. C., M.R.C.S., L.R.C.P.

*Obstetrics*

Statham, R. S. S., O.B.E., M.D.,  
Ch.M. Prof. (C.).\*

Hector, F. J., M.D., Ch.B.,  
F.R.C.S. (C.).

Shepherd, H. L., Ch.M., M.B.  
Lectr. (C.).

Smythe, H. J. D., M.C., M.B.,  
M.S. Lond., F.R.C.S.

Demr. (C.).

Baker, Lily A., M.D., B.Ch.,  
B.A.O. Dub., F.R.C.S.I. (C.).

1 Recognized Teacher.

*Ophthalmology*

Iles, A. E., O.B.E., M.B., B.S.  
Lond., F.R.C.S.

Hd. of Dept. (C.) Lectr.

Chambers, E. R., F.R.C.S.E.,  
D.O.M.S. (C.).

1 Recognized Teacher.

*Path. and Bacteriology*

Hall, I. W., M.D., Ch.B. Manc.  
(Path.) Prof.

Fraser, A. D., M.A., B.Sc., M.B.,  
Ch.B. Glas., D.P.H. Demr.

Taylor, A. L., M.D., Ch.B. Leeds.  
Demr.

Magee, V., M.B., B.Ch., B.A.O.  
Belf., D.P.H. Demr.

*Pharmacology and Therap.*

Neild, Newman, M.B., Ch.B.  
Manc., F.R.C.P. Lectr. (C.).

*Physio-Therapeutics* [Lectr.

Christofferson, P. E., M.B., Ch.B.

*Public Health*

Parry, R. H., M.B., B.S. Lond.,  
M.R.C.S., D.P.H. Lectr.

*Radio-Therapy* [(C.).

Mayes, F. J. A., M.R.C.S., L.R.C.P.

Bergin, F. G., M.R.C.S., L.R.C.P.  
(Skiagraphy) (C.).

2 Recognized Teachers in Radiol.

*Surgery*

Short, A. R., M.D., B.S., B.Sc.  
Lond., F.R.C.S. Prof.\*

Walters, C. F., F.R.C.S. (C.).

Moore, C. A., M.S., M.B. Lond.,  
Ch.M., F.R.C.S. (C.).

Chitty, H., M.B., M.S. Lond.,  
F.R.C.S. (C.).

Adams, A. W., M.B., M.S. Lond.,  
F.R.C.S. (C.).

Tasker, D. G. C., M.B., M.S. Lond.,  
B.Sc., F.R.C.S. (C.).

FitzGibbon, G. M., M.D., B.S.,  
F.R.C.S. (C.).

Wood, D., F.R.C.S. Sr. Tutor (C.).

Jackman, W. A., M.B., Ch.B.  
(C.) Jr. Tutor.

Griffiths, S. J. H., M.B., Ch.B.,  
F.R.C.S. (C.) Jr. Tutor.

1 Recognized Teacher.

## Dentistry

*Dental Anat.*

Nichols, F. C., M.B., Ch.B.,  
M.R.C.S., L.R.C.P., L.D.S.

Lectr.

*Dental Mechanics*

Wing, J. C., L.D.S. Lectr.

*Dental Surgery*

Fawn, G. F., M.C., B.D.S.,  
M.R.C.S., L.R.C.P.

Hd. of Dept. (C.) Lectr.

Nichols, F. C. (C.).

Kettlewell, N. H., H.D.D. Edin.,  
L.D.S. (C.) Tutor.

Rigg, S. K., L.D.S., L.R.C.P.,  
L.R.C.S.E. Tutor.

Lennox, W. J., B.D.S. Tutor.

Simmonds, N. H., L.D.S. Tutor.

*Orthodontics*

Kettlewell, N. H. Asst. Lectr.

\* Director of Clinical Studies.

(C.)—Clinical Lectr.

## University Extension

Director of Extra-mural studies—Nicholson, J. H., M.A. (v. Educn.). Etheridge Special Lectr. in Internat. Relations—A. S. Newell, M.A., Brown Univ., U.S.A. Extra-mural Lecturers: 37 members of the staff, including 17 for Tutorial Classes and 2 for Preparatory Classes.

Resident Tutors: *Gloucester*—Salt, W. E., M.A. Sheff., B.Com. Manc.; Taylor, W. R., B.Sc. (Econ.) Lond. *Somerset*—Cair, S. H., B.Sc. (Econ.) Lond.; Dalston, S. B., B.A. Camb. *Dorset*—Dacombe, Marianne R., M.A. Ox. *Wilts*—Douglas-Smith, A. E., M.A. Camb. *Forest of Dean*—Dowdell, A., B.A. Ox.

Social Work, Theory and Practice of—1 Recognized Teacher.

Training Course for Health Visitors—5 Recognized Teachers.

ASSOCIATED INSTITUTIONS, in which specialized teaching is given or facilities for research are afforded:—

*Agriculture*

LONG ASHTON RESEARCH STATION (Dept. of Agriculture and Horticulture), Long Ashton, Bristol. Director and Univ. Prof. of Agric. Biol., B. T. P. Barker, M.A. Camb. Staff with the standing of Lectrs. in the Univ.: Deputy Director, T. Wallace, M.C., D.Sc. Durh., A.I.C. (*Chem.*). *Bio-Chem.*—F. Tutin, M.Sc.; J. O. Jones, M.Sc. Wales; V. L. S. Charley, B.Sc. *Œnology*—O. Grove, M.Sc. *Entomol.*—C. L. Walton, Ph.D. Wales, M.Sc.; H. G. H. Kearns, B.Sc. Lond., Ph.D. Camb., Dip. Agric. (*Econ. E.*). *Mycol., Econ.*—L. Oglvie, M.A., B.Sc. Aberd., M.Sc. Camb. *Mycol.*—R. W. Marsh, M.A. Camb. *Pomology*—G. T. Spinks, M.A., Dip. Agr. Camb.; T. Swarbrick, M.Sc., Ph.D. Leeds. *Willow Growing*—H. P. Hutchinson, B.Sc. Lond. With the standing of Asst. Lectrs. in the Univ.: *Plant Physiol.*—J. C. Hinton, B.Sc., Ph.D. Leeds; Miss E. S. Smyth, B.Sc., Ph.D. 4 other Lectrs., 13 Lab. and Plantation staff. See also App. XXIV. I (b).

BERKELEY SQUARE ADVISORY CENTRE. Staff with the standing of Lectrs. in the Univ.: *Agric. Chem.*—A. W. Ling, M.Sc., N.D.A. *Agric. Econ.*—C. V. Dawe, M.Com. Leeds. *Vet. Sci.*—D. W. Menzies, M.R.C.V.S. With the standing of Asst. Lectr. in the Univ.: *Dairy Bacteriol.*—C. S. Miles, B.Sc. Reading, N.D.D.

CAMPDEN FRUIT AND VEGETABLE PRESERVING STATION, CAMPDEN, GLOS. For instruction and experimentation on a commercial scale. With the standing of Lectrs. in the Univ.: Resident Director, F. Hirst, M.Sc., A.R.C.S. (*Micro-Biol.*); W. B. Adam, M.A., A.I.C. (*Chem.*). See also App. XXIV. I (b).

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER. Principal and Univ. Reader in Agric., R. Bontfleur, M.Sc. Durh. With the standing of Teachers in the Univ.: *Agric.*—J. F. H. Thomas, M.Sc. Lond., N.D.A.; P. S. Brown, B.Sc. Agr., N.D.A.; H. E. Wells, B.Sc. Agr., N.D.A., N.D.D. *Agric. Sci.*—G. Redington, D.Sc. Aberd.; E. Shaw, B.Sc. Durh. *Estate Management*—P. E. Tyhurst. *Forestry*—A. D. C. Le Sueur, B.Sc. Agr., F.S.I., Dip. For. *Vet. Sci.*—A. C. Duncan, B.Sc. Agr., F.R.C.V.S.

*Domestic Science*

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, GLOUCESTER. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in

Dom. Sci., Ruth Whitaker. Staff with the standing of Teachers in the Univ. : *Cookery*—Gladys J. K. Lockhead, Edith A. Wright. *Dressmaking*—Florence E. Riddell. *Housewifery*—Alice M. Kaye. *Laundry Work*—Ethel Henney. *Method*—Dorothy Clayton. *Needlework*—Kate A. Voller. *Sci.*—Evelyn M. Hale, B.Sc. Columbia.

NATIONAL TRAINING COLLEGE OF DOMESTIC SUBJECTS, 72-78 Buckingham Palace Rd., London, S.W.1. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in Dom. Econ., E. Gladys Clarke, O.B.E. Staff with the standing of Teachers in the Univ. : *Cookery*—Mary C. Underhill (*and all Dom. subjects*), Janie Clark. *Edn. and Craft*—Charlotte M. Hutchinson. *English and Edn.*—Evelyn Lawrence, B.Sc. Econ., Ph.D. Lond. *Laundry Work, etc.*—Hylda M. Lancaster. *Needlework*—Gladys E. Quick, Emily Wallbank (*and Dressmaking*). *Sci.*—Hilda Shaw, B.Sc. Lond. *Sci. and Craft*—Patience Dumas, B.Sc. Lond.

#### *Education (for Kindergarten Training)*

REDLAND HIGH SCHOOL FOR GIRLS, BRISTOL. Recognized Teacher—Miss H. Philips.

COLSTON'S GIRLS' SCHOOL, BRISTOL. Recognized Teacher—Miss M. Witney, B.A. Lond.

CLIFTON HIGH SCHOOL FOR GIRLS. Recognized Teacher—Margaret K. Elliott.

*Theology* (the following are members of the Univ. staff in Theol. subjects for the B.A.)

BAPTIST COLLEGE, BRISTOL. Principal, Rev. A. Dakin, B.D. Lond., D.Th. Heid. Rev. F. E. Robinson, B.A., B.D. Lond., M.A.

WESTERN COLLEGE, BRISTOL. Principal, Rev. R. S. Franks, M.A. Camb., D.Litt. Ox., LL.D.

THEOLOGICAL COLLEGE, SALISBURY. Principal, Rev. Chancellor C. T. Dimont, D.D. Ox., M.A.; Rev. S. P. T. Prideaux, D.D. Ox.; Rev. A. J. G. Hawes, B.D., Ph.D. Lond.; Rev. C. P. S. Clarke, M.A. Ox.; Rev. J. D. How, M.A. Ox.

ST. BONIFACE MISSIONARY COLLEGE, WARMINSTER. Principal, Rev. E. C. West, M.A. Camb.; Vice-Principal, Rev. C. B. Moss, M.A. Ox., B.D., T.C.D.; Rev. A. R. Bellars, M.A. Camb. and Brist.; Rev. J. F. Clayton, M.A. Ox.; Rev. T. P. Backhouse, M.A. Camb.; R. Bridle, B.A. Lond.

## GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ. of Bristol. The main buildings, including a large extension recently opened which cost £500,000, a new building for the accommodation of the Physics department (cost £200,000), and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof. Andrew Robertson, D.Sc.

LIBRARIES, 92,500 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Hospitals available for clinical study, 2 General (668 beds), Children and Women (100), Eye (40), in all 808 beds.

**FACULTIES.** Arts, Science, Medicine, Engineering. Deans: Prof. Field (Philosophy), Prof. W. E. Garner (Physical Chemistry), Prof. Fawcett (Anatomy), Prof. A. Robertson (Mech. and Mining Eng.).

*Special Departments.* Education (places for 180 men and 180 women students); Law; Agriculture and Horticulture; Pathological Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods).

**ADMISSION.** See Appendix XXII.

**DEGREE COURSES.** B.A., B.A. (Com.), B.Sc., B.Sc. in Agriculture, B.Sc. in Engineering—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; B.Sc. in Domestic Science—4 yrs.; by research in case of a graduate of another Univ.—2 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5 yrs., including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

*Post-graduate medical studies* are under the direction of the Prof. of Pathology, who arranges for weekly afternoon demonstrations and discussions in April and May. Fee for the course, 1 guinea.

**HIGHER DEGREES.** M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; Ph.D. (see p. 18). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc.

**DIPLOMAS.** Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 2 yrs.' standing), 9 months, D.V.S.M. (for M.R.C.V.S. of 1 yr.'s standing), Engineering 3 yrs.

**CERTIFICATES.** Testamur in Educn., 1 yr.; Testamur in Social Study, 2 or (Higher Testamur) 3 yrs.; Testamur in Biology, 1 yr.; Engineering Apprentices, 2 yrs.

**FEES.** Matricn., 3 gs.; Registration, £1:10s; Tuition, annual, B.A., 24 gs., Theol. Students (1st year only), 20 gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 205 gs.; B.D.S., including mech. lab. and hospl. practice, 215 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Degree examns. (including Graduation), B.A. or B.Sc., 9½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A. and M.Sc., 9½ gs.; Ph.D., 13 gs. Univ. Union, £3:3s. per annum.

**RESEARCH.** The Colston Research Society devotes annually about £400 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

**SCHOLARSHIPS FOR GRADUATES.** £160 for research in Engin.; £40 and £31 (women only), £46 (men only), for post-graduate course; £52 for Chemical

Metall. research; £30 for study in English Lit.; studentship in Mod. Langs., £80; Studentship in Philosophy, £100.

RESIDENCE. Mortimer House and Wills Hall for men—from £75 p.a.; Clifton Hill House and Manor Hall for women students—from 60 gs. p.a.

TUTOR TO WOMEN STUDENTS. May C. Staveley, M.A.

APPOINTMENTS BOARD. Secy., T. A. Leach, M.A.

FOR FORMER STUDENTS there is an Association of Alumni.

UNIVERSITY EXTENSION. A Joint Board was formed in 1922 consisting of representatives of the Univ. of Bristol, the Univ. College of the South-west of England, Exeter, and the Univ. College of Southampton. Secy.—J. H. Nicholson, M.A., Director of Extra-mural Studies, The University, Bristol.

*Co-operation with Rural Community Councils.* The Univ. appoints 3 representatives to the R.C.C. of Gloucestershire and Somerset respectively. The Director of Extra-mural Studies in the Univ. is Chairman of the Gloucestershire R.C.C., and Chairman of the Education Committee of each of the two Councils. Both Rural Community Councils contribute to the salary of whole-time tutors for Adult Education, appointed by the Univ. for those Counties.

Schemes for Wiltshire and Dorset have been organized in co-operation with the Education Committees for these Counties, each of which contributes to the salary of a whole-time tutor. A scheme for the Forest of Dean has been organized in conjunction with the Educational Settlements Assn.

PUBLICATIONS. *Calendar* (Oct.); Faculty prospectuses issued in June; annual report of Council; Pamphlets on Extension Lectures (with list of lectures on the Bristol, Southampton, and Exeter panels), Handbook and Directory of Adult Education, Public Lectures, Halls of Residence, Regns. for Matricn. and for School Certif. Examns. (*Examm. Papers*, 1s. 3d. per set post free); Students' Mag. *Nonesuch*, 1s.

## THE YEAR 1931-32

NEW BUILDINGS. Manor Hall, the new Hall of Residence for women, now in use. It provides 100 study-bedrooms, a spacious dining-hall, common-rooms and a library.

NEW DEPARTMENTS AND POSTS. Readerships (for present Lecturers) in Imperial Hist., Econ. and Med. Chem.; Lectureships in Italian (provided by the Italian Govt.), Pharmacol. and Civil Engin.; Recognized Teachership in Agric. Sci. (Royal Agricultural Coll., Cirencester).

OTHER DEVELOPMENTS. A new degree of B.A. (Comm.) instituted. Candidates are required to have included in their matricn. subjects at least one modern foreign lang. and either Maths. or a Classical lang. The Intermediate part of the curriculum includes Econ., a modern foreign lang., Geog., and one of the following: a second modern foreign lang., Maths., Econ. Hist. The final part includes Principal subjects to be studied for 2 yrs.—Econ. (including Statistics, Banking, Public Finance and Industrial Organization), a modern foreign lang.; Subsidiary subjects to be studied for 1 yr.—Commercial Law, Economic Geog., either an addnl. foreign lang. or Accountancy or Public Administration.

CHANGES IN REGULATIONS. The regulations for the B.A. degree amended by the inclusion of separate Hons. Schools in Greek and in Latin: also by the addition of Italian as a subject for the Intermediate examn.



The regulations for the M.B., Ch.B. degrees amended as follows: (1) Students are no longer required to take an examn. in Elementary Anat., (2) Students are now required to attend the Dept. of Obstetrics during 5 mos., of which they shall reside for 2 mos. in one of the Clinical Instns. recognized by the Univ.

**EXTRA-MURAL WORK.** In rural areas the work is organized by Resident Tutors (44 centres in Gloucestershire, 53 in Somerset); 40 short courses, and 256 lectures were given.

**VISITS OF TEACHERS.** *From other Universities:* Dr. R. Beebe (Amherst Coll.), U.S.A., pursued research in the Dept. of Chemistry during 6 mos.' leave of absence. Prof. Gilbert Murray (Oxford) gave the Lewis Fry lectures on "Two Criticisms of Tradition in Greek Tragedy." Prof. Neils Bohr (Univ. of Copenhagen) gave the H. H. Wills Memorial Lecture on "Space-time Continuity in Atomic Physics." Prof. Desseignet (Univ. of Reading), Prof. Inebnit (Univ. of Leeds), Prof. Rene Jasinski (Univ. of Lille), and Monsieur Garran, Consul General of France in London, lectured to the French Circle. Prof. Willoughby (Univ. Coll., London) addressed the German Society. *To other Universities:* Prof. Crofts gave the Byron Lecture at Univ. Coll., Nottingham.

**RETIREMENTS AND DEATHS.** *Retirements:* Prof. E. W. Hey Groves (Surgery); Prof. D. C. Rayner (Obstetrics). *Resignations:* J. W. Gough (Hist.), on appointment as Tutor in Hist. at Oriel College, Oxford; Peter Haworth (English), on appointment to the Chair of English at Rhodes College, Grahams-town, South Africa, A. A. Malan (French); Bertha Swirles (Maths.); A. Wilfrid Adams (Anat.); Rev. A. T. Richardson (St. Boniface Missionary Coll., Warminster—Theological Subjects); Celeste L. G. McVicker (Housewifery), Margaret B. C. Stewart (Chem.) (Gloucestershire Training Coll. of Domestic Sci.); C. V. Salmon, Resident Tutor. *Deaths:* W. W. Ward, Member of Council; Thora G. Stone, Lectr. in Education; I. G. Sutherland, Asst. Lectr. in Dental Surg. (Orthodontics); Sir Harry Reichel, Hon. Graduate.

**HONORARY DEGREES.** LL.D.—Henry B. Napier; Rev. Canon Henry Sewell; Charles E. Barry.

**STUDENTS.** Full-time: total, 589 men, 329 women, including 71 men and 63 women graduates. Part-time: total, 17 men, 38 women, including 1 man and 1 woman graduate.

**DEGREES OBTAINED.** B.A., 10 m., 8 w.; B.A. Hons., 21 m., 30 w.; B.Sc., 13 m., 7 w.; B.Sc. Hons., 18 m., 3 w.; B.Sc. (Dom. Sc.), 7 w.; B.Sc. (Agr.), 4 m.; M.B., Ch.B., 11 m., 1 w.; M.B., Ch.B. Hons., 3 m.; B.Sc. Eng., 14 m.; B.Sc. Eng. Hons., 12 m.; M.A., 11 m., 1 w.; M.Sc., 3 m., 2 w.; Ph.D., 6 m.; D.Sc., 1 m.; M.D., 1 m.

# UNIVERSITY OF CAMBRIDGE

CHANCELLOR—Rt. Hon. STANLEY BALDWIN, M.A., Hon. LL.D. Trinity.  
VICE-CHANCELLOR—WILL SPENS, C.B.E., M.A., Master of Corpus Christi Coll.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., B.A., Hon. LL.D. Trinity.

DEPUTY HIGH STEWARD—Rt. Hon. BARON HANWORTH, K.B.E., M.A. Trinity, Master of the Rolls.

COMMISSARY—Hon. Mr. JUSTICE MACNAGHTEN, K.B.E., K.C., M.A. Trinity.

PROCTORS—C. W. GUILLEBAUD, M.A. St. John's; J. W. C. TURNER, M.A. Trinity Hall.

ORATOR—T. R. GLOVER, M.A. St. John's.

REGISTRARY—E. HARRISON, M.A. Trinity.

FIRST ASSISTANT REGISTRARY AND SECRETARY OF THE GENERAL BOARD OF THE FACULTIES—R. E. PRIESTLEY, M.A. Clare; ASSISTANT REGISTRARY AND SECRETARY OF THE BOARD OF EXAMINATIONS—H. CLAYE, M.A. Gonville and Caius

LIBRARIAN—A. F. SCHOLFIELD, M.A. King's.

TREASURER—T. KNOX-SHAW, M.A. Sidney Sussex.

REPRESENTATIVES IN PARLIAMENT—Sir J. J. WITHERS, C.B.E., M.A., LL.D. St. Catharine's and King's; G. H. A. WILSON, O.B.E., M.A. Clare.

NOTE. The Colleges and Heads of Colleges are given on pp. 47 ff.

## PROFESSORS, LECTURERS, ETC.

<i>Aeronautics</i> , v. Engineering	Green, H. L. H. H., M.A. Sid. Demr.
<i>Agriculture</i> , v. <i>infra</i>	Manton, Miss S. M., M.A., Ph.D. Girton
<i>Anatomy</i> , v. also Zool.	Demr. in Comparative A.
Wilson, J. T., M.A. Joh., LL.D., M.B., F.R.S. Prof.	Pennell, V. C., M.A., M.B., B.Chir. Pemb. Demr.
Duckworth, W. L. H., M.D., Sc.D. Jes. (Human A.) Reader.	<i>Anglo-Saxon</i>
Shearer, C., Sc.D. Cla. (Embryology) Lectr.	Chadwick, H. M., M.A. Clare
Appleton, A. B., M.D. Down. „	Elrington and Bosworth Prof.
Fell, W. A., M.A. Sid. Demr.	<i>Anthropology</i>
Reid, D. G., M.A. Trin. Demr.	Sayce, R. U., M.A. Cath. (Mat. Cult. and Phys. A.) Lectr.

*Anthropology, Social*

Hodson, T. C., M.A. Chr.

William Wyse Prof.

*Arabic*, v. Oriental*Archæology*, v. also Classical A.,

Classics, Orient Langs.

Minns, E. H., Litt.D. Pemb.

Disney Prof.

Burkitt, M. C., M.A. Trin. Lectr.

de Navarro, J. M., M.A. Trin. Lectr.

..... Lectr.

*Architecture, School of*

Fyfe, D. T., M.A. Pemb.,

F.R.I.B.A. Director &amp; Lectr.

*Art* [Slade Prof of Fine Art.

.....

## Lecturers :

Fyfe, D. T., M.A. Pemb.

Tomlinson, H., M.A. Chr.

Checkley, G., M.A. Demr.

*Assyriology*, v. Oriental Langs.*Astronomy* [Plumian Prof.

Eddington, Sir A. S., M.A. Trin.,

D.Sc. Durh., F.R.S.

Smart, W. M., M.A. Trin.

Chief Asst. &amp; Adams Astronomer.

Green, H. E., M.A. Second Asst.

*Astron. & Geom.* [Lowndean Prof.

Baker, H. F., Sc.D. Joh.

*Astrophysics*

Stratton, F. J. M., D.S.O., M.A.

Cai. Prof.

Wormell, T. W., M.A., Ph.D. Joh.

Obs in Meteorological Phys.

Butler, C. P., A.R.C.Sc.

1st Sen. Solar Physics Observer.

Moss, W. 2nd Senior Observer.

Dobbie, J. C., M.A. Trin.

Junior Observer.

*Bibliography* [Sandars Reader.

Keynes, G. L., M.D. Pem.

*Biochemistry*

Hopkins, Sir F. G., M.A. Trin.

Sir W. Dunn Prof.

..... Sir W. Dunn Reader.

Hele, T. S., M.D. Emm. Lectr.

Dixon, M., Ph.D., Sc.D. Emm.

Lectr.

Needham, N. J. T. M., M.A., Ph.D

Cai.

Demr

*Biology*

Keilin, D., M.A. Magd., F.R.S

(Dir of Molteno Inst. of

Parasitology) Quick Prof.

*Botany*, v. also Agric.

Seward, A. C., Sc.D. Down. Prof.

Blackman, F. F., M.A. Joh.

Reader.

Brooks, F. T., M.A. Emm., F.R.S,

(Mycol.)

Reader.

## Lecturers :

Thomas, H. H., Sc.D. Down.

Briggs, G. E., M.A. Joh. (Plant

Physiol).

Gilbert-Carter, H., M.A. Trin.

Maskell, E. J., M.A., Ph.D. Emm.

(Plant Physiol).

Dowson, W. J., M.A. Chr. (Mycol.).

Godwin, H., M.A., Ph.D. Cla.

Demr.

Harris, T. M., M.A., Ph.D. Chr.

Demr.

*Chemistry*, v. also Bio-, Phys.

Inorg and Stereo-C. and Prev.

Med.

Pope, Sir Wm J, K.B.E., M.A.

Sid.

Prof

Janson, S. E., B.A. Cai.

Asst. to Prof.

## Lecturers :

McCombie, H., M.A. King's

Mann, F. G., Ph.D., Sc.D., Trin.

Palmer, W. G., M.A. Joh.

## Demonstrators :

Bowden, F. P., Ph.D., Cai.

Berry, A. J., M.A. Down

Durrant, P. J., M.A., Ph.D. Selw.

Kipping, F. B., M.A., Ph.D. Trin.

Scarborough, H. A., M.A. Cla.

Stockdale, D., M.A., Ph.D. King's

*Chemistry, Inorganic*

Lennard-Jones, J. E., Ph.D. Trin.,

D.Sc. Manc.

J. H. Plummer Prof.

*Chemistry, Physical*

Lowry, T. M., C.B.E., M.A.  
Trin. H. Prof.  
Rideal, E. K., M.A. Trin. H.  
F.R.S. (Colloid Sci.) Prof.  
Norrish, R. G. W., M.A., Ph.D.  
• Emm. H. O. Jones Lectr.

*Classical Archæology*

Cook, A. B., Litt.D. Qu.

Laurence Prof.

*Classics*

[Reg. Prof.]

Robertson, D. S., M.A. Trin. (Greek)  
Housman, A. E., M.A. Trin.  
(Latin) Kennedy Prof.  
Sheppard, J. T., M.A. King's.  
Brereton Reader.  
Angus, Rev. C. F., M.A. Trin. H.  
Perceval Maitland  
Laurence Reader.  
Charlesworth, M. P., M.A. Joh.  
(Anc. Hist.) Laurence Reader.  
Lawrence, A. W., M.A. Ox. (Class.  
Archæol.) Laurence Reader.

*Lecturers :*

Angus, Rev. C. F., M.A. Trin. H.  
Bacon, Miss J. R., M.A. Girton.  
Campbell, S. G., M.A. Chr. (Epi-  
graphy and Dialects).  
Deas, H. T., M.A. Cai.  
Edmonds, J. M., M.A. Jes.  
Gardner, R., M.A. Emm.  
Glover, T. R., M.A. Joh. (Ancient  
History).  
Gow, A. S. F., M.A. Trin.  
Greenwood, L. H. G., M.A. Emm.  
Hackforth, R., M.A. Sid.  
Hallward, B. L., M.A. Pet.  
Jones, W. H. S., Litt.D. Cath.  
Lawson, J. C., M.A. Pemb.  
Morris, G. G., M.A. Corp.  
Peck, A. L., M.A., Ph.D. Chr.  
Rackham, H., M.A. Chr.  
Rattenbury, R. M., M.A. Trin.  
Sandbach, F. H., M.A. Trin.  
Seltman, C. T., M.A. Qu.  
Sheppard, J. T., M.A. King's.  
Sills, H. H., M.A. King's.  
Toynbee, Miss J., M.A. Newn.

Vernon Jones, V. S., M.A. Magd.

*Divinity, v. also Orient. Langs.*

Creed, Rev. J. M., D.D. Joh.

Ely Prof.

Barnes, W. E., D.D. Pet.

Hulsean Prof.

Bethune-Baker, Rev. J. F., D.D.

Pemb. Lady Margaret's Prof.

Burkitt, F. C., D.D. Trin.

Norrisian Prof.

Raven, Rev. C. E., D.D. Emm.

Reg. Prof.

Whitney, Rev. J. P., D.D. Emm.

(Eccles. Hist.) Dixie Prof.

White-Thomson, Rt. Rev. L. J.,

D.D. King's

(Past. Theol.) Lectr.

Wood, H. G., M.A. Jes.

Hulsean Lectr.

Bouquet, A. C., D.D. Trin.

(Philos. of Religion) Stanton

Lectr.

*Other Lecturers :*

Boys Smith, J. S., M.A. Joh.  
Burnaby, Rev. H., M.A. Emm.  
Chase, Rev. G. A., M.A. Trin. H.  
Gardner-Smith, Rev. P., M.A.,  
B.D. Jes.  
Hoskyns, Rev. Sir E. C., M.A.  
Corp.  
Marsh, Rev. F. S., M.A. Selw.  
Smith, Rev. B. T. D., B.D. Sid.  
Telfer, Rev. W., M.A. Cla.  
Wood, Rev. C. T., B.D. Qu.

*Lady Margaret's Preacher :*

Simpson, Rev. F. A., M.A. Trin.

*Economics and Politics, v. also*

Pol. Econ. [Reader.]

Robertson, D. H., M.A. Trin.

*Lecturers :*

Alston, L., M.A. Chr.  
Clark, C. G. (Statistics).  
Dobb, M. H., M.A. Pemb.  
Evans, I. L., M.A. Joh.  
Guillebaud, C. W., M.A. Joh.  
Hollond, Mrs., Girton.

Robinson, E. A. G., M.A. Sid.  
 Rowe, J. W. F., M.A. Trin.  
 Shove, G. F., M.A. King's  
                     Girdlers' Lectr.  
 Thatcher, W. S., M.A.

### *Education*

Fox, C., M.A. Chr.                      Lectr.  
 Asst. Lecturers:  
 Williamson, R. S., M.A. Chr.  
 Meldrum, R., M.A. Joh.

### *Engineering, v. infra*

### *English, v. also Anglo-Saxon*

Quiller-Couch, Sir A. T., M.A. Jes  
                     K. Ed. VII. Prof.

### *Lecturers:*

Attwater, A. L., M.A. Pemb.  
 Bennett, H. S., M.A. Emm.  
 Coulton, G. G., Litt.D. Joh.  
 Downs, B. W., M.A. Chr.  
 Forbes, M. D., M.A. Cla.  
 Henn, T. R., M.A. Cath.  
 Lucas, F. L., M.A. King's.  
 Murray, Miss H. M. E. A. R., M.A.  
                     Girton.  
 Potts, L. J., M.A. Qu.  
 Richards, I. A., M.A., Litt.D.  
                     Magd.  
 Tillyard, E. M. W., M.A. Jes.  
 Welsford, Miss E. E. H., M.A.  
                     Newn.

### *Entomology*

Imms, A. D., M.A. Chr.                      Reader.  
 Thorpe, W. H., M.A., Ph.D. Jesus  
                     Lectr.

### *Entomology, Agricultural, v. Agriculture infra*

### *Forestry, v. Agriculture infra*

### *French*

[Drapers Prof.  
 Prior, O. H. P., M.A. Joh.  
 Stewart, Rev. H. F., D.D. Trin.  
                     Reader.  
 Beves, D. H., M.A. King's                      Lectr.  
 Chaytor, Rev. H. J., Litt.D. Cath.  
                     Lectr.  
 Stokoe, F. W., M.A. Cai.                      Lectr.

Vulliamy, E. O., M.A. King's Lectr.  
 Seznec, J. J., Agr. de L. Paris  
                     Teacher.

*Genetics* [Arthur Balfour Prof.  
 Punnett, R. C., M.A. Cai.

### *Geodesy*

Lenox-Conyngham, Col. Sir G. P.,  
                     M.A. Trin.                      Reader.  
 Bullard, E. C., B.A., Ph.D. Cla.  
                     Demr.

### *Geography*

Debenham, F., M.A. Cai.                      Prof.

### *Lecturers:*

Craster, J. E. E., Hon. M.A. Down.  
 Darby, H. C., M.A., Ph.D. King's.  
 Stanners, R. W., M.A. Cai.  
 Steers, J. A., M.A. Cath.  
 Willis, Miss M. S., M.A. Girton  
                     Demr.

### *Geology, v. also Mineral, Petrol.*

Jones, O. T., M.A. Cla., F.R.S.  
                     Woodwardian Prof.  
 Nicholas, T. C., O.B.E., M.A. Trin.  
                     Lectr.  
 Elles, Miss G. L., Newnham Lectr.  
 Bernal, J. D., M.A. Emm. (Struct.  
                     Crystallography)                      Lectr.  
 Bullman, O. M. B., Ph.D. Sid.  
                     Demr.

### *Geophysics*

Jeffreys, H., M.A. Joh.                      Reader.

### *German*

Williams, R. A., M.A. Cath., Litt.D.  
                     Dub., Ph.D. Leipzig  
                     Schroder Prof.  
 Bennett, E. K., M.A. Cai.                      Lectr.  
 Butler, Miss E. M., M.A. Newn.  
                     Lectr.  
 Knight, A. H. J., M.A. Trin.                      Lectr.  
 Rosteutscher, J., Ph.D. Bresl.  
                     Teacher.

### *Hebrew, v. Oriental*

### *History*

*Lecturers:*  
 Benians, E. A., M.A. Joh.  
 Brooke, Z. N., Litt.D. Cai.

Butler, J. R. M., M.A. Trin.  
 Butterfield, H., M.A. Pet.  
 Cam, Miss H. M., M.A. Girton.  
 Crawley, C. W., M.A., Trin. H.  
 Elliott, C. A., M.A. Jes.  
 Evennett, H. O., M.A. Trin.  
 Jones, Miss M. G., M.A. Girton.  
 Jordan, W. E., M.A. Selw.  
 Kitson Clark, G. S. R., M.A. Trin.  
 Laffan, Rev. R. G. D., M.A. Qu.  
 Laurence, R. V., M.A. Trin.  
 Manning, B. L., M.A. Jes.  
 Passant, E. J., M.A. Sid.  
 Perrett, G. B., M.A. Selw.  
 Pickthorn, K. W. M., M.A. Corp.  
 Previté-Orton, C. W., Litt.D. Joh.  
 Reddaway, W. F., M.A. King's.  
 Salter, F. R., M.A. Magd.  
 Simpson, Rev. F. A., M.A. Trin.  
 Steel, A. B., M.A. Chr.  
 Vellacott, P. C., M.A. Pet.  
 Welbourne, E., M.A. Emm.

*History, Ancient*, v. also Classics  
 Adcock, F. E., M.A. King's Prof.

*History, Constitutional*  
 Lapsley, G. T., M.A. Trin. Reader.

*History, Eccl.*, v. Div.

*History, Econ.*  
 Clapham, J. H., C.B.E., Litt.D.  
 King's Prof.  
 Fay, C. R., M.A. Chr. Reader.

*History, Indian* [Lectr.  
 Gaskoin, C. J. B., M.A. Jes.

*History, Modern* [Reg. Prof.  
 Trevelyan, G. M., M.A. Trin.  
 Temperley, H. W. V., O.B.E.,  
 Litt.D. Pet. Prof.

*History, Naval*  
 Rose, J. H., Litt.D. Chr.  
 (till June 1933) Vere Harms-  
 worth Prof.

*Hygiene*, v. Med.

*Industrial Relations*  
 Hilton, John, M.A.  
 Montague Burton Prof.

### *Italian*

..... Prof.  
 Bullough, E., M.A. Cai. Lectr.  
 Butler, Miss K. T. B., M.A. Girton  
 Lectr.  
 Pettoello, D., Dr. Phil. Turin  
 Teacher.

*Law*, v. *infra*

*Logic*, v. Philos.

*Mathematics*, v. also Physics  
 Dirac, P. A. M., Ph.D. Joh.  
 Lucasian Prof.  
 Hardy, G. H., M.A. Trin. (Pure  
 M) Sadleirian Prof.  
 Littlewood, J. E., M.A. Trin.  
 Rouse Ball Prof.

Lecturers:  
 Besicovitch, A. S., M.A. Trin.  
 Cayley Lectr.

Burkill, J. C., M.A. Pet.  
 Cunningham, E., M.A. Joh.  
 Dean, W. R., M.A. Trin.  
 Goldstein, S., M.A., Ph.D. Joh.  
 Ingham, A. E., M.A. King's.  
 Mayall, R. H. D., M.A. Sid.  
 Mott, N. F., M.A. Cai.  
 Munro, A., M.A. Qu.  
 Newman, M. H. A., M.A. Joh.  
 Pars, L. A., M.A. Jes.  
 Pollard, S., M.A. Trin.  
 Room, T. G., M.A. Joh.  
 Smart, W. M., M.A. Trin.  
 Steen, S. W. P., M.A. Chr.  
 Swain, Miss L. M., M.A. Newnham.  
 White, F. P., M.A. Joh.  
 Whittaker, J. M., M.A. Pemb.  
 Wood, P. W., M.A. Emm.  
 Lamb, Sir H., M.A., Hon. Sc.D.  
 Trin. Rayleigh Lectr.  
 van der Waerden, Prof., B.L.  
 (Leipzig Univ.)  
 Rouse Ball Lectr.

*Medicine and Surgery*, v. *infra*

### *Metallurgy*

Hutton, R. S., M.A. Cla., D.Sc.  
 Manc. Goldsmiths' Prof.

*Meteorology, v. Astrophysics**Military Studies*

Costello, Br.-Gen. E. W., V.C.,  
C.M.G., D.S.O., M.A. Cai.  
Director.

*Mineralogy and Petrology*

Tilley, C. E., Ph.D. Emm. Prof.  
Phillips, F. C., M.A., Ph.D. Corp.  
Lectr.

Rastall, R. H., M.A., Sc.D. Chr.  
Lectr.

Phemister, T. C., D.Sc. Glas.  
Demr.

Wooster, W. A., M.A., Ph.D. Pet.  
(Mineral) Demr.

*Moral Science, v. Philos.**Music* [Prof.]

Dent, E. J., M.A., Mus.B. King's  
Rootham, C. B., Mus.D. Joh.  
(Harmony and Counter-  
point) Lectr.

*Oriental Langs, v. infra**Palaeography, v. Classics**Parasitology, v. Biol.**Petrology, v. Mineralogy**Philology, Comparative*

Giles, P., Litt.D. Emm. Reader

*Philosophy, Ancient*

Cornford, F. M., M.A. Trin.  
Laurence Prof.

*Philosophy, Mental, and Logic*

Moore, G. E., Litt.D. Trin. Prof.

*Philos., Moral, v. also Psychol., Div.*

Sorley, W. R., Litt.D. King's  
Knightbridge Prof.

Broad, C. D., Litt.D. Trin.  
Sidgwick Lectr.

Braithwaite, R. B., M.A. King's  
Lectr.

Ewing, A. C., M.A. Trin. H. Lectr.

*Philos., Natural*

Wilson, C. T. R., M.A. Sid.  
Jacksonian Prof.

*Physics, v. also Philos., Nat.*

Rutherford, Lord, O.M., M.A.,  
Hon. Sc.D. Trin., F.R.S.

Cavendish Prof. of Expl. P.  
Thomson, Sir J. J., O.M., M.A.,  
Hon. Sc.D. Trin., F.R.S.

Prof.  
Fowler, R. H., M.A. Trin., F.R.S.  
(Math. P.) J. H. Plummer Prof.

Geiger, Prof. H. (Tubingen)  
Scott Lectr.

Searle, G. F. C., Sc.D. Pet. (Expl.  
P.) Lectr. & Demr.

Wood, A., M.A. Emm. Lectr.

Thirkall, H., M.A. Clare Lectr.

Bedford, T. G., M.A. Sid. Lectr.

Ellis, C. D., Ph.D. Trin. Lectr.

Blackett, P. M. S., M.A. King's  
Lectr.

Cockcroft, J. D., M.A., Ph.D. Joh.  
Demr.

Ratcliffe, J. A., M.A. Sid. Demr.

Chadwick, J., Ph.D. Cai.  
Asst. Dir. Radioactive  
Research, Lectr.

Kapitza, P., Ph.D. Trin.  
Asst. Dir. Magnetic Res.

*Physiology, v. also Agric.* [Prof.]

Barcroft, J., C.B.E., M.A. King's  
Shore, L. E., M.D. Joh. Lectr.

Roughton, F. J. W., Ph.D. Trin.  
Lectr. in Physico-chemi-  
cal Aspects of P.

Willmer, E. N., M.A. Joh. Lectr.

Winton, F. R., M.D. Cla. Lectr.

Tunncliffe, H. E., M.A. Cai. Demr.

Matthews, B. H. C., M.A. King's  
Asst. Dir. Physiol. Res.

Adair, G. S., M.A. King's  
Asst. Dir. Physiol. Res.

*Political Economy, v. also Econ.*

Pigou, A. C., M.A. King's Prof.

*Political Science*

Barker, E., Litt.D. Pet. Prof.

*Portuguese, v. Spanish*

*Psychology, Exper., v. also Psy-  
chopathol.*

Bartlett, F. C., M.A. Joh., F.R.S.  
(Dir. of the Psych. Lab.) Prof.

Banister, H., Ph.D. Joh. Lectr.  
Grindley, G. C., B.Sc. Brist. Demr.

*Romance* [Reader.

Braunholtz, E. G. W., M.A. King's

*Sanskrit*, v. Oriental Langs.

*Scandinavian Studies*

Reddaway, W. F., M.A. King's  
Director.

*Slavonic*

Goudy, A. P., M.A. Clare Lectr.

*Spanish and Portuguese*

Kirkpatrick, F. A., M.A. Trin  
(till 30.9.33) Reader.

Vallejo, J. Teacher.

Barker, J. W., Ph.D. Down. Lectr.

Bullock, T. W. I., M.A. Qu.  
(Spanish) Lectr.

*Statistics*

Wishart, J., M.A. Cla. and Edin.,  
D.Sc. Lond. Reader.

Clark, C. G., B.A. Ox. Lectr.

*Stereochemistry*

Mills, W. H., M.A. Jes. Reader.

*Theology*, v. Div.

*Zoology*, v. also Animal Path.,  
Entom., Med. Entom.

Gardiner, J. S., M.A. Cai. Prof.

Borradaile, L. A., Sc.D. Selw.

Lectr.

Potts, F. A., M.A. Trin. H. Lectr.

Saunders, J. T., M.A. Chr. Lectr.

Pantin, C. F. A., M.A. Trin.

Harding Lectr.

Brindley, H. H., Joh. Demr.

Pumphrey, R. J., M.A., Ph.D.

Trin. H. Demr.

*Zoology, Experimental*

Gray, J., M.A., Sc.D. King's  
Reader.

*Zoology, Vertebrate*

Cooper, C. F., M.A. Trin. Reader.

*Agriculture*

v. also Biology

Engledow, F. L., M.A. Joh.

Drapers Prof.

Lecturers:

Mansfield, W. S., M.A. Emm.

Line, J., M.A. Emm.

Garner, F. H., M.A. Cla.

Sanders, H. G., M.A., Ph.D. Joh.

*Agric. Biology*

Watkins, A. E., M.A. Joh. (Cytol.)

Lectr.

..... Demr

*Agric. Chemistry*

Lecturers:

Woodman, H. E., M.A. Down.

Nicholson, H. H., M.A. Selw.

*Agric. Econ. and History*

Venn, J. A., Litt D. Qu.

Gilbey Lectr.

*Agric. Physiology*

Marshall, F. H. A., C.B.E., Sc.D.

Chr., F.R.S. Reader.

*Animal Pathology*

Buxton, J. B., M.A., F.R.C.V.S.,

D.V.H. Prof.

*Entomology*

Thorpe, W. H., M.A., Ph.D. Jes.

Lectr.

*Estate Management*

Dean, N., M.A. Trin. H. Lectr.

*Forestry*

..... Reader.

Watt, A. S., Ph.D. Down.

Gurney Lectr.

Boulton, E. H. B., M.A. Cath.

Lectr.

*Engineering*

Lecturers:

Bird, A. L., M.A. Pet.

Browne, A. D., M.A. Qu.

Davenport, A. H., M.A. Sid.

Dykes, F. J., M.A. Trin.

Farren, W. S., M.A. Trin.

Hayes, R. A., M.A. Trin. H.

Landon, J. W., M.A. Cla. (Mech. E.).

Lubbock, R., M.A. Pet.

Peake, A. H., M.A. Joh.

Phear, H. W., M.A. Cai.

Portway, D., M.A. Cath.



Spittle, J. T., M.A. Pemb.  
 Turner, L. B., M.A. King's.  
 Womersley, W. D., M.A. Emm.  
 Woodward, W. E., M.A. Trin.  
 Wyatt, T. C., M.A. Chr.

*Demonstrators*

Gough, G. S., M.A. Pemb.  
 Sanders, T. R. B., M.A. Corp.  
 Angus, R. H., M.A. Sid.

*Aeronautical Engineering*

Jones, B. M., M.A. Emm.  
 F. Mond Prof.

*Electrical Engineering*

Lamb, C. G., Sc.D. Cla. Reader.

*Mechanism and Appl. Mechanics*

Inglis, C. E., O.B.E., M.A. King's  
 Prof.

*Thermodynamics*

Peel, T., M.A. Magd.  
 Hopkinson Lectr.

**Law**

*Lecturers :*

Barnes, H., M.A., LL.B. Jes.  
 Carr, F., LL.D. Trin. H.  
 Duff, P. W., M.A. Trin.  
 Lewis, T. E., Ph.D. Cai.  
 Turner, J. W. C., M.A., LL.B.,  
 Trin. H.  
 Wade, E. C. S., M.A., LL.M. Cai.  
 Whalley-Tooker, H. C., M.A.,  
 LL.M. Down.  
 Ziegler, C. H., M.A., LL.M. Pemb.

*Law, Civil*

[Reg. Prof.]  
 Buckland, W. W., LL.D. Cai.

*Law, Comparative*

Gutteridge, H. C., M.A., LL.M.  
 Trin. H. Reader.

*Law, English*

Winfield, P. H., LL.D. Joh.  
 Rouse Ball Prof.  
 Hollond, H. A., O.B.E., M.A.,  
 LL.M. Trin. Reader.

*Law, Indian*

Campbell, A., M.A. Pemb. Lectr.

*Law, Internat.*

Higgins, A. Pearce, C.B.E., LL.D.,  
 K.C. Trin. Whewell Prof.  
 McNair, A. D., LL.D. Cai (Public  
 Int. L.) Reader.

*Laws of England*

Hazeltine, H. D., Litt.D. Down.  
 Downing Prof.

**Medicine**

(for subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Hygiene*, v. Prev. Med.

*Medical Chemistry*

Cole, S. W., M.A. Trin. Lectr.

*Medical Radiology & Electrology*

Barclay, A. E., M.D. Chr. Lectr.  
 Stead, G., M.A. Cla. (Physics as  
 applied to M.R.) Lectr.

*Mental Pathology*, v. Psychopath.

*Pathology*

Dean, H. R., M.D. Trin. H. Prof.  
 Webb, R. A., Ph.D. Pet. Lectr.

*Demrs. :*

Williamson, R., M.A. Cla.  
 Spooner, E. T. C., M.A. Cla.  
 Miles, A. A., M.A. King's.

*Pathology, Special*

Drury, A. N., M.D. Cai.  
 Huddersfield Lectr.

*Pharmacology*

Holmes, E. G., M.D. Down. Lectr.

*Physic*

Brown, W. Langdon, M.D. Corp.  
 Reg. Prof.  
 Hele, T. S., M.D. Emm (Assessor  
 to Reg. Prof. Physic).

*Preventive Medicine* [Reader.

Graham-Smith, G. S., M.D. Pemb.

*Psychopathology*

[Lectr.]  
 MacCurdy, J. T., Sc.D. Corp.

*Surgery*  
Roderick, H. B., O.B.E., M.D.,  
M.Chir Emm. Lectr.

## Oriental Languages

..... Lectr.

*Arabic* [Sir T. Adams's Prof.  
Nicholson, R. A., Litt.D. Trin.  
Bevan, A. A., M.A. Trin.  
Lord Almoner's Prof.

*Aramaic*  
..... Lectr.

*Assyriology* [Eric Yarrow Lectr.  
Winckworth, C. P. T., M.A. Chr.

*Bengali*  
Samman, H. F., M.A. Emm. Lectr.

*Burmese*  
Cooke, A. G., M.A. Emm. Lectr.

*Chinese*  
..... Prof.

*Hebrew*  
Cook, S. A., M.A., Litt D. Cai  
Reg. Prof.

*Hindi and Marathi*  
Harrison, Lt.-Col. H., Hon. M.A.  
Cai. Lectr.

*Persian*  
Levy, R., M.A. Chr. Lectr.

*Rabbinics*  
Loewe, H M J., M.A. Qu. Reader.

*Sanskrit*  
Rapson, E. J., M.A. Joh. Prof.  
Rouse, W. H. D., Litt.D. Chr.  
(S. and Pal) Lectr.

*Tamil and Telugu* [Lectr.  
Krishnamma, J. R., M.A. Emm.

*Urdu*  
Grey, Lt.-Col. W. G., M.A. Cai.  
Lectr.

## Rede Lecturer

1933—Prof. Sir Charles S. Sher-  
rington, O.M., G.B.E., M.D.,  
F.R.S.

Leslie Stephen Lecturer  
1933—Prof A. E. Housman, M.A.  
Trin.

University Extension  
Stipendiary Lecturers, appointed  
by Board of Extra-mural  
Studies: P. L. Babington,  
M.A., LL.B. Joh. (James  
Stuart Lecturer), G. P. Bailey,  
Hon. M.A. (James Stuart  
Lecturer), I. C. Hannah,  
M.A. Trin., D. R. Hardman,  
M.A. Chr., W. P. Baker, M.A.  
Jes., F. Lee, H. C. Shearman.

## THE COLLEGES

CHRIST'S COLLEGE. Founded 1505. Master—N. McLean, M.A. Fellows :  
Hobson, Emer. Prof. E. W., M.A.,  
Sc.D., F.R.S.  
Rackham, H., M.A.  
Haddon, A. C., M.A., Sc.D., F.R.S.  
Campbell, S. G., M.A.  
Valentine-Richards, Rev. A. V., M.A.  
Marshall, F. H. A., C.B.E., M.A., Sc.D.,  
F.R.S.  
Saunders, J. T., M.A., Tutor.  
Downs, B. W., M.A., Tutor.  
Grose, S. W., M.A., *Senr. Tutor*.  
Wyatt, T. C., M.A.  
Steen, S. W. P., M.A.  
Steel, A. B., M.A.  
Peck, A. L., M.A., Ph.D.  
Rose, Prof. J. Holland, Litt.D.  
Rastall, R. H., M.A., Sc.D.  
Harris, T. M., M.A., Ph.D.  
Snow, C. P., Ph.D.  
Raven, Rev. Prof. C. E., M.A., D.D.

CLARE COLLEGE. Founded 1326. Master—G. H. A. Wilson, O.B.E., M.A., M.P. Fellows :

Chadwick, Prof. H. M., M.A., F.B.A.  
Thirkill, H., M.C., M.A., *President and Tutor*.  
Forbes, M. D., M.A.  
Harrison, W. J., M.B.E., M.A.  
Landon, J. W., M.B.E., M.A.  
Telfer, Rev. W., M.C., M.A.

Priestley, R. E., M.C., M.A.  
Godwin, H., M.A., Ph.D.  
Spooner, E. T. C., M.A.  
Hammond, N. G. L., B.A.  
Jones, Prof. O. T., M.A., F.R.S.  
Dean, P. H., B.A.

CORPUS CHRISTI COLLEGE. Founded 1352. Master—Will Spens, C.B.E., M.A., Chev. Lég. d'H. Fellows :

Pollock, Rev. C. A. E., M.A.  
Pearce, Rt. Rev. E. C., D.D., Lord Bishop of Derby.  
Pickthorn, K. W. M., M.A., *Tutor*.  
Hoskyns, Rev. Sir Edwyn C., Bt., M.A.  
Morris, G. G., M.A., *Bursar*.  
Clark-Kennedy, A. E., M.A., M.D., M.R.C.P.  
Goodhart, A. L., M.A., LL.D.

Sanders, T. R. B., M.A.  
MacCurdy, J. T., Sc.D. (M.D. Johns Hopkins).  
Mynors, H. C. B., M.A., *Assistant Tutor*.  
Charvet, P. E., M.A.  
Carter, G. S., M.A., Ph.D.  
Brown, Prof. W. Langdon, M.D., F.R.C.P.  
Lennard-Jones, Prof. J. E., Ph.D.

DOWNING COLLEGE. Founded 1800. Master—A. C. Seward, M.A., Sc.D., F.R.S., Prof. of Botany. Downing Prof. of Laws of England: H. D. Hazeltine, M.A., Litt.D., F.B.A. Fellows :

Widdicombe, J. H., M.A.  
Berry, A. J., M.A.  
Thomas, H. H., M.A., Sc.D.  
Smith, F. B., C.M.G., M.A., *Bursar*.  
Whalley-Tooker, H. C., M.A., LL.M., *Senior Tutor*.

Appleton, A. B., M.D.  
Cuttle, W. L., M.A., *Tutor and Dean*.  
Holmes, E. G., M.A., M.B., B.Chir., M.D., *Tutor*.  
Cockerell, S. C., M.A., Hon. Litt.D.

EMMANUEL COLLEGE. Founded 1584. Master—Peter Giles, M.A., LL.D., Litt.D., F.B.A., Reader in Comp. Philol. Fellows :

Bennett, G. T., M.A., Sc.D., F.R.S.  
Greenwood, L. H. G., M.A.  
Wood, A., M.A., *Tutor*.  
Wood, P. W., M.A., *Senior Tutor*.  
Whitney, Rev. Prof. J. P., M.A., D.D.  
Hele, T. S., O.B.E., M.A., M.D., *Tutor*.  
Jones, Prof. B. M., A.F.C., M.A.  
Burnaby, Rev. H., M.A.  
Gardner, R., M.C., M.A., *Bursar*.  
Welbourne, E., M.C., M.A., *Tutor*.  
Wallace, J. C., M.C., M.A.  
Line, J., A.F.C., M.A.

Head, Most Rev. F. W., M.C., M.A. B.D.  
Wright, G. J. H., D.S.O., M.A. *College Secretary*.  
Tilley, Prof. C. E., Ph.D.  
Grave, W. W., M.A., Ph.D.  
Carslaw, H. S., M.A., Sc.D.  
Wilson, A. H., M.A.  
Rushton, W. A. H., Ph.D.  
Brooks, F. T., M.A., F.R.S.  
Jenkins, R. J. H., M.A.  
Revans, R. W.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—J. F. Cameron M.A. Fellows :

Buckland, Prof. W. W., M.A., LL.D., F.B.A., *President*.

Gallop, E. G., M.A.  
Vesey, W. T., M.A.

Hardy, Sir W. B., M.A., F.R.S.  
 Gardiner, Prof. J. S., M.A., F.R.S.  
 Punnett, Prof. R. G., M.A., F.R.S.  
 Stratton, Prof. F. J. M., D.S.O., M.A.  
 Brooke, Z. N., M.A., Litt.D.  
 McNair, A. D., C.B.E., M.A., LL.D.  
 Bullough, E., M.A.  
 Phear, H. W., M.A.  
 Okey, Prof. T., M.A.  
 Debenham, Prof. F., O.B.E., M.A.  
 Cook, Prof. S. A., M.A., Litt.D.  
 Chadwick, J., Ph.D., F.R.S.

JESUS COLLEGE. Founded 1496.  
 Foakes-Jackson, Rev. F. J., M.A., D.D.  
 Abbott, E., M.A.  
 Duckworth, W. L. H., M.A., M.D.,  
 Sc.D.  
 Elliott, C. A., M.A., *Senior Tutor*.  
 Mills, W. H., M.A., F.R.S.  
 Quiller-Couch, Prof. Sir Arthur T., M.A.  
 Nairne, Rev. A., M.A., D.D.

KING'S COLLEGE. Founded 1441.  
 D.D. Fellows :  
 Tilley, A. A., M.A.  
 Macaulay, W. H., M.A.  
 Richmond, H. W., M.A., F.R.S.  
 Wedd, N., M.A.  
 Reddaway, W. F., M.A.  
 Sills, H. H., M.A.  
 Barcroft, Prof. J., C.B.E., M.A., F.R.S.  
 Inglis, Prof. C. E., O.B.E., M.A., F.R.S.  
 Sorley, Prof. W. R., M.A., Litt.D.,  
 F.B.A.  
 Pigou, Prof. A. C., M.A., F.B.A.  
 Sheppard, J. T., M.B.E., M.A., *Vice-  
 Provost*.  
 Clapham, Prof. J. H., C.B.E., M.A.,  
 Litt.D., F.B.A.  
 Keynes, J. M., C.B., M.A., F.B.A.  
 Adcock, Prof. F. E., O.B.E., M.A.  
 Gray, J., M.C., M.A., Sc.D., F.R.S.  
 Birch, F. L., O.B.E., M.A.  
 Milner-White, Rev. E., D.S.O., M.A.,  
*Dean*.  
 McCombie, H., D.S.O., M.C., M.A.  
 Turner, L. B., M.A.  
 Durnford, H. G. E., M.C., M.A.  
 Lucas, F. L., M.A.

MAGDALENE COLLEGE. Founded 1542. Master—A. B. Ramsay, M.A.  
 Fellows :  
 Ramsey, A. S., M.A., *President*.  
 Vernon Jones, V.S., M.A., *Senior Tutor*.

Bennett, E. K., M.A., *Senior Tutor*.  
 Tunnichiffe, H. E., M.A., *Tutor*.  
 Needham, N. J. T. M., M.A., Ph.D.  
 Oakeshott, M. J., M.A.  
 Deas, H. T., M.A., *Tutor*.  
 Heywood, Rev. H. C. L., M.A.  
 Weller, E. P., M.A., *Bursar*.  
 Bowden, F. P., Ph.D.  
 Mott, N. F., M.A.  
 Powell, F. C., M.A.  
 Wade, E. C. S., M.A., LL.M., *Tutor*.  
 Griffith, G. T., B.A.

Master—A. Gray, M.A. Fellows :  
 Manning, B. L., M.A.  
 Pars, L. A., M.A.  
 Barnes, H., M.A., LL.B.  
 Gardner-Smith, Rev. P., M.A., B.D.,  
*Dean*.  
 Sinker, A. P., M.A., *Tutor*.  
 Thorpe, W. H., M.A., Ph.D., *Tutor*.

Provost—Rev. A. E. Brooke, M.A.,  
 Adair, G. S., M.A.  
 Blackett, P. M. S., M.A.  
 Ord, B., Mus.B., M.A.  
 Scholfield, A. F., M.A.  
 Beves, D. H., M.A., *Tutor*.  
 Braithwaite, R. B., M.A.  
 Shove, G. F., M.A.  
 Stockdale, D., Ph.D., M.A.  
 Dent, Prof. E. J., M.A., Mus.B.  
 Forster, E. M., M.A.  
 Thomson, G. D., M.A.  
 Hall, P., M.A.  
 Rylands, G. H. W., M.A., *Dean*.  
 Balfour, R. E., M.A.  
 Matthews, B. H. C., M.A.  
 Lucas, D. W., M.A.  
 Ingham, A. E., M.A.  
 Kahn, R. F., M.A.  
 Morris, G. C., M.A.  
 Saltmarsh, J., B.A.  
 Radcliffe, P. F., Mus.B., M.A.  
 Wilkinson, L. P., B.A.  
 Bairstow, L., M.A.  
 Darby, H. C., M.A., Ph.D.  
 Salt, G., M.A., *Stringer Fellow*.

Peel, T., M.A., *Bursar*.  
 Gaselee, S., C.B.E., M.A.  
 Salter, F. R., M.A., *Tutor*.  
 Morshead, O. F., D.S.O., M.A.  
 King, W. B. R., O.B.E., M.A.  
 Clark, Rev. F. H. H., M.A.

Richards, I. A., M.A., Litt.D.  
 Turner, F. McD. C., M.A.  
 Scott, F. R. F., M.A., *Tutor*.  
 Piccoli, Prof. R., M.A.  
 Verblunsky, S., Ph.D.  
 Keilm, D., M.A., F.R.S.

PEMBROKE COLLEGE. Founded 1347. Master—A. Hutchinson, O.B.E., M.A., F.R.S. Fellows:

Whibley, L., M.A.  
 Bethune-Baker, Rev. Prof. J. F., M.A., D.D., F.B.A.  
 Lawson, J. C., O.B.E., M.A., *Tutor*.  
 Comber, H. G., D.S.O., M.A., *Treasurer*.  
 Minns, Prof. E. H., M.A., Litt.D., F.B.A.  
 Pennell, V. C., M.A., M.B., B.Chir., F.R.C.S.

Spittle, J. T., O.B.E., M.A., *Tutorial Bursar*.  
 Attwater, A. L., M.A., *Librarian*.  
 McClelland, N. P. K. J. O'N., M.A., *Bursar*.  
 Wynn, Rev. H. E., M.A., *Dean*.  
 King, B. E., M.A., LL.B.  
 Roberts, S. C., M.A.  
 Pascal, R., M.A.  
 Whittaker, J. M., M.A.  
 Arberry, A. J., M.A.

PETERHOUSE. Founded 1284. Master—Field-Marshal Sir William R. Birdwood, Bart., G.C.B., G.C.M.G., G.C.S.I., M.A., LL.D. Fellows:

Walker, Rev. T. A., M.A., LL.D.  
 Barnes, Rev. Prof. W. E., M.A., D.D., *Dean*.  
 Temperley, Prof. H. W. V., O.B.E., M.A., Litt.D., F.B.A.  
 Vellacott, P. C., D.S.O., M.A., *Tutor*.  
 Lubbock, R., M.A.  
 Butterfield, H., M.A.

Hallward, B. L., M.A.  
 Barker, Prof. E., Litt.D.  
 Middleton, H. S., M.A., Mus.B.  
 Burkill, J. C., M.A., *Tutor*.  
 Sams, Sir H. A., C.I.E., M.A., *Bursar*.  
 Guthrie, W. K. C., M.A.  
 Clark, J. G. D., B.A., *Bye-Fellow*.

QUEENS' COLLEGE. Founded 1448. President—J. A. Venn, Litt.D. Fellows:

Munro, A., M.A., *Bursar*.  
 Wood, Rev. C. T., M.A., B.D., *Dean*.  
 Cook, A. B., M.A., Litt.D.  
 Laffan, Rev. R. G. D., M.A., *Tutor and Chaplain*.

Sleeman, C. M., M.A.  
 Browne, A. D., M.A., *Tutor*.  
 Potts, L. J., M.A., *Jr. Bursar*.  
 Maxwell, E. A., B.A.

ST. CATHARINE'S COLLEGE. Founded 1473. Master—F. M. Rushmore, M.A., J.P. Fellows:

Jones, W. H. S., M.A., Litt.D., *President and Bursar*.  
 Chaytor, Rev. H. J., M.A., Litt.D., *Senior Tutor*.  
 Newman, L. F., M.A., *Asst. Tutor*.  
 Portway, D., M.A., *Asst. Tutor*.

Withers, Sir J. J., C.B.E., M.A., LL.D., M.P.  
 Steers, J. A., M.A., *Dean*.  
 Henn, T. R., M.A., *Prælector*.  
 Waddams, Rev. C. D., M.A., *Chaplain*.  
 Rich, E. E., M.A.

ST. JOHN'S COLLEGE. Founded 1511. Master—Sir R. Forsyth Scott, M.A. Fellows:

Heitland, W. E., M.A.  
 Webb, R. R., M.A.

MacAlister, Sir Donald, Bart., K.C.B., M.A., M.D.

- Larmor, Sir Joseph, M.A., Hon. Sc.D., F.R.S.  
 Marr, J. E., M.A., Sc.D., F.R.S.  
 Harker, A., M.A., F.R.S.  
 Baker, Prof. H. F., M.A., Sc.D., F.R.S.  
 Shore, L. E., O.B.E., M.A., M.D.  
 Sikes, E. E., M.A., *President*.  
 Blackman, F. F., M.A., F.R.S.  
 Glover, T. R., M.A.  
 Ward, Rev. J. T., M.A.  
 Foxwell, H. S., M.A., F.B.A.  
 Benians, E. A., M.A., *Tutor*.  
 Rapson, Prof. E. J., M.A.  
 Cunningham, E., M.A.  
 Jeffreys, H., M.A., F.R.S.  
 Rootham, C. B., M.A., Mus.D.  
 Palmer, W. G., M.A.  
 Bartlett, Prof. F. C., M.A.  
 Creed, Rev. Prof. J. M., M.A., D.D.  
 Coulton, G. Gordon, Litt.D.  
 Prior, Prof. O. H. P., M.A.  
 Engledow, Prof. F. L., M.A.  
 White, F. P., M.A.  
 Wilson, Prof. J. T., M.A., F.R.S.  
 Briggs, G. E., M.A.  
 Wordie, J. M., M.A., *Tutor*.  
 Winfield, Prof. P. H., LL.D.
- Yule, G. U., C.B.E., M.A., F.R.S.  
 Charlesworth, M. P., M.A.  
 Howard, Sir H. F., C.S.I., K.C.I.E., M.A.  
 Raven, Rev. E. E., M.A.  
 Evans, I. L., M.A.  
 Newman, M. H. A., M.A.  
 Rolleston, Emer. Prof. Sir Humphry D., Bart., G.C.V.O., K.C.B., M.A., M.D.  
 Previt -Orton, C. W., M.A., Litt.D.  
 Guillebaud, C. W., M.A., *Tutor*.  
 Boys-Smith, Rev. J. S., M.A., *Tutor*.  
 Dirac, Prof. P. A. M., Ph.D.  
 Cockcroft, J. D., M.A., Ph.D.  
 Leakey, L. S. B., M.A.  
 Howland, R. L., M.A., *Tutor*.  
 Hodge, W. D. V., M.A.  
 Semple, J. G., B.A., Ph.D.  
 Brindley, H. H., M.A.  
 Vernon, P. E., M.A., Ph.D.  
 Bateson, G., M.A.  
 Redman, R. O., Ph.D.  
 Gatty, H. P. W., M.A.  
 Bailey, S. J., M.A., LL.M.  
 Westlake, H. D., M.A.  
 Rosenhead, L., Ph.D.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—Rev. G. A. Weekes, M.A. Fellows:

- Robson, H. C., M.A.  
 Mayall, R. H. D., M.A.  
 McNeile, Rev. A. H., M.A., D.D.  
 Pope, Prof. Sir William J., K.B.E., M.A., F.R.S.  
 Knox-Shaw, T., M.A.  
 Hackforth, R., M.A.  
 Wilson, Prof. C. T. R., M.A., F.R.S.
- Smith, Rev. B. T. D., M.A., B.D., *Tutor*.  
 Passant, E. J., M.A.  
 Davenport, A. H., M.A.  
 Green, H. L. H. H., M.A.  
 Ratchliffe, J. A., M.A.  
 Robinson, E. A. G., M.A.  
 Welchman, W. G., M.A.

TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, O.M., M.A., LL.D., Sc.D., Ph.D., F.R.S. (Prof. of Physics). Fellows:

- Kirkpatrick, Very Rev. A. F., M.A., D.D.  
 Boughey, Rev. A. H. F., M.A.  
 Glazebrook, Sir Richard T., K.C.B., M.A., F.R.S.  
 Frazer, Sir James G., O.M., M.A., Litt.D., F.B.A., F.R.S.  
 Parry, Rev. R. St. J., M.A., D.D.  
 Duff, J. D., M.A.  
 Whitehead, A. N., M.A., Sc.D., F.R.S.  
 Bevan, Prof. A. A., M.A., F.B.A.
- Dampier, Sir W. C. D., M.A., Sc.D., F.R.S.  
 Capstick, J. W., O.B.E., M.A.  
 Innes, H. McL., M.A.  
 Fletcher, Sir Walter M., K.B.E., C.B., M.A., M.D., Sc.D., F.R.S.  
 Cornford, Prof. F. M., M.A.  
 Harrison, E., M.A.  
 Laurence, R. V., G.C.V.O., M.A.  
 Lapsley, G. T., M.A.  
 Winstanley, D. A., M.A.

- Dykes, F. J., M.A., *Tutor*.  
 Eddington, Prof. Sir A. S., M.A., D.Sc., F.R.S.  
 Littlewood, Prof. J. E., M.A., F.R.S.  
 Newall, Prof. H. F., M.A., F.R.S.  
 Hollond, H. A., D.S.O., O.B.E., M.A., LL.M.  
 Robertson, Prof. D. S., M.A.  
 Hopkins, Prof. Sir F. Gowland, M.A., P.R.S.  
 Housman, Prof. A. E., M.A.  
 Simpson, Rev. F. A., M.A.  
 Tennant, Rev. F. R., M.A., D.D.  
 Butler, J. R. M., M.V.O., O.B.E., M.A., *Senior Tutor*.  
 Adrian, E. D., M.A., M.D., F.R.S.  
 Fowler, Prof. R. H., M.A., F.R.S.  
 Robertson, D. H., M.A.  
 Burnaby, J., M.A., *Tutor*.  
 Stewart, Rev. H. F., M.A., D.D.  
 Rutherford, Prof. Lord, O.M., M.A., Sc.D., F.R.S.  
 Taylor, G. I., M.C., M.A., F.R.S.  
 Nicholas, T. C., O.B.E., M.A.  
 Pollard, S., M.A.  
 Aston, F. W., Sc.D., F.R.S.  
 Lenox-Conyngham, Sir Gerald P., M.A., F.R.S.  
 Ellis, C. D., Ph.D., F.R.S.  
 Pearson, Prof. A. C., Litt.D.  
 Kitson-Clark, G. S. R., M.A.  
 Broad, C. D., M.A., Litt.D.  
 Roughton, F. J. W., M.A., Ph.D.  
 Dean, W. R., M.A.  
 Moore, Prof. G. E., M.A., Litt.D.  
 Gow, A. S. F., M.A., *Tutor*.  
 Duff, P. W., M.A.  
 Kapitza, P., Ph.D., F.R.S.  
 Burkitt, Prof. F. C., D.D., F.B.A.  
 Higgins, Prof. A. P., C.B.E., LL.D.  
 Nicholson, Prof. R. A., Litt.D., F.B.A.  
 Rattenbury, R. M., M.A.  
 Trevelyan, Prof. G. M., O.M., M.A.  
 Sandbach, F. H., M.A.  
 de Bruyne, N. A., M.A., Ph.D.  
 Pantin, C. F. A., M.A.  
 Black, M., M.A.  
 Feather, N., Ph.D.  
 Gaunt, J. A., M.A.  
 Ursell, H. D., M.A.  
 Evennett, H. O., M.A.  
 Knight, A. H. J., M.A.  
 Brunyate, J. W., M.A.  
 Gray, L. H., Ph.D.  
 Paley, R. E. A. C., M.A.  
 Du Val, P., Ph.D.  
 Besicovitch, A. S., M.A.  
 Wittgenstein, L., Ph.D.  
 Mann, F. G., Ph.D., Sc.D.  
 Hardy, Prof. G. H., M.A.  
 Young, L. C., M.A.  
 Coxeter, H. S. M., B.A., Ph.D.  
 Hamilton, W., B.A.  
 Runciman, J. C. S., M.A.  
 Blunt, A. F., B.A.  
 Davenport, H. J., B.A.  
 Milikan, G. A.

TRINITY HALL. Founded 1350. Master—Prof. H. R. Dean, M.D. Fellows :

- Bond, H., LL.D.  
 Rendell, W. R., M.A.  
 Angus, Rev. C. F., M.A., *Librarian*.  
 Potts, F. A., M.A., *Prælector*.  
 Chase, Rev. G. A., M.A., *Tutor and Dean*.  
 Hayes, R. A., M.A., *Steward*.  
 Oliver, D. T., LL.M., *Librarian*.  
 Rideal, Prof. E. K., M.A., F.R.S.  
 Crawley, C. W., M.A., *Asst. Tutor*.  
 Turner, J. W. C., M.A., *Bursar*.  
 Cooper, C. Forster, M.A.  
 Clarke, L. C. G., M.A.  
 Gutteridge, H. C., M.A., LL.M., K.C.  
 Wansbrough-Jones, O. H., Ph.D., *Asst. Tutor*.  
 Elvin, H. L., M.A.  
 Lewis, T. E., Ph.D. Cai.

SELWYN COLLEGE. Founded 1882. Master—Rev. G. E. Newsom, M.A. Fellows :

- Jordan, W. E., M.A., *Vice-Master and Tutor*.  
 Borradaile, L. A., M.A., Sc.D., *Tutor*.  
 Williams, W. N., M.A., LL.B.  
 Marsh, Rev. F. S., M.A., *Tutor*.  
 Perrett, G. B., M.A., *Bursar*.  
 Durrant, P. J., M.A., Ph.D.  
 Blyth, Rev. A. C., M.A., *Dean*.  
 Murray, J. O. F., M.A., D.D.  
 Woodward, F. H., M.A.

**FITZWILLIAM HOUSE: NON-COLLEGIATE STUDENTS.** Established 1869. Censor—W. S. Thatcher, M.A.; Asst. Censor, Bursar and Chaplain—Rev. W. Harvey, M.A.; Prælector—The Censor; Resident M.A.—C. J. B. Gaskoin, M.A.; Director of Studies in Nat. Sci.—F. I. G. Rawlins, M.Sc.

Supervisors of Studies. *Agriculture*: S. W. U. Muncey, M.A. *Botany*: E. F. Warburg, B.A. *Chemistry*: P. J. Durrant, M.A., Ph.D. *Classics*: B. F. C. Atkinson, M.A., Ph.D. *Economics*: ..... *English*: B. Willey, M.A. *French*: J. Grace. *Geography*: C. G. Joseph, M.A. *Geology*: A. G. Brighton, M.A. *German*: E. D. T. E. Breul, M.A. *History*: C. J. B. Gaskoin, M.A.; Rev. W. Harvey, M.A. *Law*: C. H. Ziegler, M.A., LL.M. *Mathematics*: J. J. Welch, M.A. *Mechanical Sciences*: C. R. G. Cosens, M.A.; R. S. Ball, M.A. *Medical Studies*: E. G. Holmes, M.D. *Medæval and Modern Languages*: A. J. Wyatt, M.A.; W. W. Grave, M.A., Ph.D. *Moral Sciences*: C. Fox, M.A. *Physics*: G. Stead, M.A. *Theology*: supervision will be arranged after interview. *Zoology*: R. J. Pumphry, B.A., Ph.D.

#### WOMEN'S COLLEGES recognized by the University:

**GIRTON COLLEGE.** Founded 1869. Mistress—Miss H. M. Wodehouse, M.A.

Directors of Studies: F. E. Cave-Browne-Cave, M.A. (Mathematics); J. R. Bacon, M.A. (Classics); M. B. Thomas, M.A. Dub. (Natural Sc. and Geog.); M. G. Jones, M.A. (Hist. and Law); K. T. B. Butler, M.A. (Mod. and Med. Languages); Mrs. M. Hollond, Ph.D. Columbia (Econ.); H. M. R. Murray, M.A. (English and Philology), Vice-Mistress; Resident Lectrs.: in Maths, Mrs. Veitch, M.A.; in History, H. M. Cam, M.A. Lond.; in French, Mlle. Bibas, M.A.; in English, M. G. Lloyd Thomas, M.A. Ox. Supervisor in Zoology: S. M. Manton, M.A., Ph.D. Supervisor in Geography: M. S. Willis, M.A.

Bursar—F. M. Smith, M.A. Secy.—M. Clover, M.A. Junior Bursar—K. M. Robertson, M.A. Librarian—H. I. McMorran, M.A.

**NEWMHAM COLLEGE.** Founded 1871. Principal—Miss J. P. Strachey, M.A.

Tutors—E. M. Chrystal, M.A. (Sidgwick Hall); A. B. Dale, M.A. (Old Hall); Mrs. Palmer, M.A. (Peile Hall); M. Steele Smith, M.A. (Clough Hall).

Other Lectrs.: L. M. Swain, M.A.; M. D. Kennedy, M.A. (Maths.); J. Toynbee, M.A. (Classics); G. L. Elles, D.Sc., T.C.D. (Geol.); A. C. Davies, D.Sc. Lond. (Physics); H. J. Pybus, M.A. Ox. (Hist.); E. M. Butler, M.A. (Mod. Langs.); E. E. H. Welsford, M.A.; A. D. M. Hoare, M.A. Aberd., Ph.D. (English); Mrs. Hollond, Ph.D. Columbia (Econ.). Bursar—Mrs. Lacy. Registrar of the Roll—M. Steele Smith.

### GENERAL INFORMATION

The legislative and executive authority of the Univ. is vested in the **REGENT HOUSE**, which comprises those Univ. Officers, Fellows of Colls., and others, who are concerned with its teaching and administrative work. A meeting of the Regent House is called a *Congregation*.

There is a right of appeal against a decision of the Regent House, on the motion of at least one-third of its members, to the **SENATE**, which consists of graduates of at least seven years' standing from their first term of residence, who have taken a degree of Doctor or Master, or the degree of Bachelor of Divinity. In order to be successful an appeal must be sustained by a statutable prescribed majority. The Senate elects the Chancellor and certain other officers, confers degrees, and holds meetings for the discussion of proposals.

Changes of statute can be made by the Univ. with the approval of the Privy Council and Parliament.



Many executive duties, and the duty of sanctioning the submission of resolutions (called *Graces*) to a Congregation, are entrusted to the *Council of the Senate*, which is elected by the Regent House.

The titular presiding officer at a Congregation, and the Chairman of the Council, is the Chancellor, who is by custom a non-resident distinguished in public life. His duties are in fact performed by the Vice-Chancellor, who is a Head of a College, appointed annually, in theory by the Regent House, in practice by the Council. It is customary for the Vice-Chancellorship not to be held for more than two years in succession by one person.

There are numerous *Boards* and *Syndicates* for dealing with the various branches of University business: the most important of them are the *General Board of the Faculties*, whose duty it is to advise the Univ. as to educational policy and to supervise and co-ordinate the work of the Faculties, and the *Financial Board*, whose duty it is to supervise the finance of all spending departments.

There are twenty Faculties, a Faculty being a body of teachers in a subject or group of subjects. The organization of teaching, research, and examinations in the various subjects is in the hands of the several Faculty Boards, subject to the control of the General Board. A Faculty Board is in part composed of members elected by the Faculty. Some of the Faculties are divided into Departments, under a Head, generally a Professor, who is responsible to the Faculty Board for the management of his Department.

The **INCOME** of the Univ. is derived from the endowments of specific posts, from general endowment (though to a small extent only), from the fees of students, from the statutable contributions of Colls., and from a Treasury Grant.

**DISCIPLINE** outside the walls of the Colls. is maintained by the Proctors.

The Univ. **TEACHING OFFICERS** are the Professors, Readers, Univ. Lecturers, and Univ. Demonstrators. They, as well as most of the administrative officers, are required to join in the Federated Superannuation Scheme for Univs. The retiring age is 65, but 60 for women Univ. Lecturers.

The **COLLEGES** are self-governing corporate bodies distinct from the Univ., owning and managing their separate property, the corporators being the Head and Fellows. Their powers are, however, limited by their Statutes, which cannot be altered by them without notice to the Univ. and approval by the Privy Council. The functions of the Colls. in regard to students are to provide lodging, corporate life, and personal tuition, while the function of the Univ. is to provide public instruction by means of lectures and demonstrations, examinations leading to degrees, and facilities for research. The affairs of the Colls. are, however, closely interwoven with those of the Univ. Most of the Fellows of Colls. are Univ. officers, indeed the Statutes require that a certain proportion of the Fellowships of each Coll. shall be held by Univ. officers. And each Coll. is required by Statute to contribute a certain fraction of its income to the funds of the Univ., the scale of contribution being graduated according to the wealth of the College.

The Colls. also maintain Fellowships for the furtherance of research, and a large number of Scholarships. The title of scholar is awarded on purely intellectual grounds, but, as at Oxford, no Coll. emolument other than an allowance for rooms is paid to an undergraduate scholar unless he satisfies the Coll. that his circumstances justify the payment.

**NON-COLLEGIATE STUDENTS** reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by

becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

**WOMEN STUDENTS.** Subject to the condition that the joint number of women students receiving instruction in the Univ. shall not exceed five hundred, the students of the women's Colls. (Girton and Newnham) are admitted to instruction and examinations in the Univ. and to the titles of degrees, including research degrees. Women who have received, or are qualified to receive, titles of degrees share with men graduates, under the Representation of the People Acts 1918 to 1928, the privilege of voting for the election of the two Burgesses who represent the Univ. in the House of Commons. Women are eligible for all Univ. teaching offices and for membership of Faculties and Faculty Boards, but cannot become members of the Senate or Regent House. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the Previous examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the courses and examns. for the Diplomas in Agric., Horticulture, Forestry, Geog., and in Education. In Oct. 1921 the Grace admitting them to titular degrees was passed. Under the New Statutes in Oct. 1926 women became eligible for all Univ. teaching offices, and in the following year were enabled to compete on the same footing as men for Univ. Studentships, Scholarships, and Prizes, except where specifically excluded.

**ADMISSION.** See Appendix XXII.

**INCORPORATION.** Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. (Trinity College) are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. (Trinity College) who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb. Women graduates of Ox. or Dub. (Trinity College) may be admitted by incorporation to the title of the same degree or degrees in Camb.

**INTERCOLLEGIATE INDIAN STUDENTS COMMITTEE:** Secy., R. B. Whitehead, M.A., 22 Fitzwilliam St.

**TERMS.** In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of  $2\frac{1}{2}$  miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin: 1932-33—Oct. 7, Jan. 16, Apr. 19; 1933-34—Oct. 10, Jan. 15, Apr. 18; end: 1932-33—Dec. 5, Mar. 16, June 10; 1933-34—Dec. 8, Mar. 15, June 9.

**DEGREES.** B.A., M.A., M.Litt., Litt.D.; M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

**ARTS.** The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.) passing or being exempted from the *Previous Examn.*; (iii.) passing the examns. for the Ordinary Degree or a Tripos examn. or examns.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. App. XXII).

(ii.) The *Previous Examn.* includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa

who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details and exemptions, see Appendix XXII.

(iii.) Either (a) the General Examn. (which comprises a number of subjects) and a Special Examn. in one of the following subjects: Div., Engl. Lit., Econ., Law, Rural Econ., Mily. Studies, Psych., Physics, Chem., Biology. Or (b) the Examns. in *Agriculture* and allied subjects. Or (c) the Examns. in *Architecture*.

Certain combinations of (a), (b), and (c) are allowed, and also certain combinations of parts of (a) with parts of the course for the M.B. or the Mus.B., or with parts of a Tripos course.

The Honours B.A. is obtained by passing in one or more of the following Triposes: Archæological and Anthropological, Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Mor. Scs., Nat. Scs., Oriental Langs., Theol.

A Bachelor may be admitted Master of Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his admission as B.A.

**DIVINITY.** A graduate proceeds to the B.D. when he is of not less than five years' standing from his first degree, either (1) by submitting an original dissertation composed by himself on some subject connected with Biblical Criticism, Exegesis, or History, or with the Nature and Grounds of Christian Belief, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 3 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

**LAW.** A student who has kept 9 terms and obtained Hons. in both parts of the Law Tripos, or Hons. in some other Tripos and subsequently Hons. in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained hons. in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the hons. standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. (For an Affiliated Student these requirements may be modified.) A LL.B. may, not less than 6 years after the end of his 1st term and not less than 2 years since his admission, ask leave to submit a dissertation on some branch of law or of the hist. or philosophy of law, and, if such dissertation is approved, he may be admitted to the Degree of LL.M. Any graduate may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

**MEDICINE.** The qualifications for the M.B. and B.Chir. are: (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous Examn.* (iii.) 5 yrs.' Med. study; (iv.) passing in due order 3 examns. and (for the M.B. degree) presenting an approved thesis. Admission to the 2nd M.B. examn is conditnl. on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the 3rd M.B. is conditnl. on proof of 3 yrs. of hosp. practice, 5 yrs.' Med. study, and diligent attendance on prescribed courses

of instruction and practical work. A M.B. in the 9th term after admission and a M.A. in the 12th after admission may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospital practice and passed exams. as required for the M.B. A candidate for the M.Chir. Degree must pass an examn. to which, if Master of Arts, he may be admitted after he has become legally qualified to practise Surgery. A candidate who is not a Master of Arts may be admitted to the examn. 2 years after completing all the requirements for the B.Chir. Degree; but 3 years must have elapsed since he was admitted B.Chir. before admission to the M.Chir. Degree. Addenbrooke's Hospl., containing over 200 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B.: 1st examn. for B.Sc. in Agr. of Univ. of S. Africa (subject for subject); 1st yr. examn. for M.B. and Ch.B. or B.Sc. of Univ. of Witwatersrand; 1st examn. for med. degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Physics, Chem., and Biol. in Univ. of Queensland, W. Aust., or Tasm.

**MUSIC.** The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous* examn.; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since admission as Mus.B. and after passing the prescribed examn.

Graduates of not less than 8 years' standing from admission to their first degree who have given proof of distinction in musical composition may be candidates for the Mus.D.

**THE SC.D. AND LITT D.** Either degree is open to a graduate of not less than 8 years' standing from admission to his first degree. These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

**DIPLOMAS.** In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 2 Diplomas which are open to other persons—in Geog., and in Med. Radiology and Electrology; and 7 which are restricted, or almost restricted, to members of the Univ.—Agric. Sc., Anthropol., Architect., Class. Archæol., Education, Forestry,\* and Oriental Langs., the diplomas in Anthropol. and Orient. Langs. being open to non-members in certain exceptional circumstances only. *Certificates* of competent knowledge of certain foreign langs., open to members of the Univ. only, are awarded. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal-mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one term only by *Officers of any of the Public Services of the Empire*, not ordinarily resident in the British Isles, having exceptional qualifications.

The Univ. makes provision for training candidates for the Higher CIVIL SERVICES; Probationary Vice-Consuls; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service, and candidates for service under the Govt. of the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated

\* The examinations for the Diploma in Forestry will be held, if candidates present themselves, until October 1935 inclusive but not thereafter.

Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), and from O. V. Guy, D.S.O., M.C., M.A., Univ. Offices, St. Andrew's St., who is Secy. to the Board of I.C.S. Studies and Appointments Board.

A system of **MILITARY INSTRUCTION** has also been organized by the Univ. The Board of Milit. Studies (Secy.—Lt.-Col. G. J. Hornsby Wright, D.S.O., M.A. Emm.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix I.

**AVIATION.** Official recognition has also been given to the University Air Squadron. The Squadron, membership of which is strictly limited, is primarily a technical organization affiliated to the University and under the direction of the Air Ministry; but practical flying instruction is also given to members. See Appendix I. Other students, with the permission of their parents or guardians and also of their Tutors, are permitted to fly, under certain restrictions, as members of a Civil Flying Club.

The **TRAINING OF TEACHERS** is under the management of the Teachers' Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—Warkworth House).

Examns. for the *Certificate of Proficiency*, held in June and Dec., are open to students of certain colleges, and to graduate teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A. Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several exhibitions are offered to intending schoolmasters. Students who have not previously been attached to the college may also take a post-graduate course of training.

There is also the *Cambridge Training College for Women* (*Post-graduate*). Principal—Miss M. H. Wood, M.A. Camb. and Lond., Litt.D. T.C.D., which admits women, who have graduated at any British Univ., to a course of professional training in preparation for work in secondary schools. Recognized students receive a grant from the Board of Education, and graduates in receipt of the four years' grant at any Univ. may be transferred for their 4th year to this College. Total number of students, about 50.

Cambridge graduates are trained for **HOLY ORDERS** in the Church of England at Ridley Hall, founded in 1879 (Principal—Rev. J. P. S. R. Gibson, M.A., F.I.A. Sid. Suss.); or at Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, O.B.E., M.A. Trin.). Other theological colleges recognized by the Univ. as Houses of Residence for students: Westminster Coll., founded 1844 (Principal—Rev. J. Oman, M.A. Qu., D.Phil., and D.D. Edin. and Ox., Presbyterian); Cheshunt Coll., founded 1768 (President—Rev. S. Cave, D.D. Lond., mainly Congregational); St. Edmund's House, founded in 1896 (Rector—Rev. C. L. Waring, M.A. Chr., Roman Catholic); and Wesley House, founded 1924 (Principal—Rev. H. M. Hughes, M.A. Jes., D.D. Lond.). Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

**RESEARCH STUDENTS.** Each application for admission must be made to the Secretary, and accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and

previous study ; (iii.) a statement of the degree, if any, for which the applicant wishes to be a candidate ; (iv.) a certif. or declaration of the applicant's age at the date of application. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (a) that the course of research can conveniently be pursued within the Univ., and (b) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course. Before admission he is required to become a member of a College, or a Non-Collegiate student.

Secretary of the Board of Research Studies : R. E. Priestley, M.A. Clare. Correspondence should be addressed to the Secretary at the Univ. Registry, Cambridge.

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Faculty concerned. If he should wish to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by his supervisor and by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as a research student, the M.Sc. or M.Litt. degree may be obtained. For the Ph.D. degree (v. p. 14) 3 yrs. are ordinarily required. One year of the 3-yrs.' course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a yr.'s satisfactory research work before admission to Cambridge Univ. For any degree six terms' residence is essential.

UNIVERSITY SCHOLARSHIPS open to graduates number about 60, and are worth about £6000 p.a. In almost every instance they are open only to persons who have graduated in this Univ., or have kept a certain number of terms. For details see *Students' Handbook* (price 7s 6d., Univ. Press), which also gives details of *Entrance Scholarships*.

For scholarships and grants open to other than graduates of the Univ. see App. XXIII.

DOMINIONS AND COLONIAL EXHIBITIONS. In view of the difficulties experienced by Dominion and Colonial students in competing for scholarships and exhbns. in the open examn. held each Dec., Trinity Coll. is prepared to consider applications made by Dominion and Colonial Univs. on behalf of their students for the grant of exhbns. ; value £40 a yr. either more or less according to holder's financial circumstances. See also App. XXIII. Candidates must apply through the principal authority of their univ. Applications for next award must reach the Senior Tutor, Trinity Coll. by July 1, 1933, from whom particulars should be obtained.

EXPENSES. No return. See under "Oxford," p. 234, and the *Students' Handbook to Cambridge*, 1932-33 (Chap. IV.).

THE UNIVERSITY APPOINTMENTS BOARD is concerned with appointments of all kinds (Secy.—O. V. Guy, D.S.O., M.C., M.A. ; Asst. Secs.—A. L. Maycock, M.C. M.A. (Education) ; W. N. C. van Grutten, O.B.E., M.C., M.A. (Engineering). Address : University Offices, St. Andrew's St. *Telegrams*—Appointments, Cambridge.

CAMBRIDGE UNIVERSITY WOMEN'S APPOINTMENTS BOARD. Secy.—Miss S. Campbell, M.A., 4 Brick Court, Temple, London, E.C.4. Interviews by appointment only.

The UNIVERSITY LIBRARY contains about 1,250,000 vols., including many early printed books, and over 10,000 MSS. and 195,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U.K., and

a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediæval, ecclesiastical, and modern history, 60,000 vols.); W. G. Aston's Japanese library; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.). The annual budget is about £20,000.

Each College has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. Among special collections in College libraries are: in Christ's College the Robertson Smith collection of Oriental books, many of which are connected with Semitic literature; in Gonville and Caius College 800 MSS. collected by Wm. Moore, 1653-59, 60 *incunabula*, heraldic collections of Dr. John Knight (17th cent.), 1300 books and controversial pamphlets of Dr. Wm. Branthwaite (d. 1619), Norfolk and Suffolk topographical and genealogical works; in Girton College small collections of Oriental books, chiefly Sanskrit (Cowell) and Hebrew (Frere—printed catalogue), and Botany books and pamphlets (Ethel Sargent).

In the Arts School in Bene't Street are the Seeley Memorial (works on History and Comparative Politics originally collected by Prof. John Symonds, 1771 to 1807, and added to by his successors), the Bendall (Sanskrit, etc.), and Modern and Mediæval Languages and Moral Sciences departmental libraries. A large library of English and other literature is housed in the English School (Downing St.). The Balfour library in Downing Place contains a large collection of books and periodicals on biological subjects. Here also is the Marshall Library of Economics. Other important departmental collections are in the Museum of Classical Archæology, the Squire Law Library, the Selwyn Divinity School, and the schools of the Natural Sciences. There is a collection of music in the rooms of the Cambridge Musical Society (Downing St.). The Library of the Philosophical Society maintains a special relation to all the Scientific Depts., and is very rich in sets of Journals and Scientific Transactions.

#### MUSEUMS. (a) Art and Archæology.

*The Fitzwilliam Museum* (Director—S. C. Cockerell, M.A., Litt.D.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs, early printed books, and music.

*The Museum of Classical Archæology* (Curator—Prof. A. B. Cook, Litt.D. Qu.) contains a collection of casts illustrating the history of Greek sculpture.

*The Museum of Ethnology and Archæology* (Curator—L. C. G. Clarke, M.A. Trin. H.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collections, and numerous others resulting from scientific expeditions by Cambridge men.

#### (b) Science.

The Museums of Science include museums, laboratories, lecture-rooms, classrooms, and workshops for Agric., Bio-Chem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs, and drawing office), Exper. Physics, Hum. Anat., Ethnol., Medicine, Mineralogy, Path., Physiol., Psychol., Zool., and Comp. Anat.

*The Museum of Zoology* (Supt.—C. F. Cooper, M.A. Trin. H.) includes very complete series of vertebrates and invertebrates, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry.

The *Sedgwick Museum of Geology* includes a fine collection of British and foreign building stones lately added to the Economic section.

#### LABORATORIES AND FIELD STATIONS.

The *Zoological Laboratory*, in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology.

*Low Temperature Station for Research in Bio-Chemistry and Bio-Physics* (Director—Sir William B. Hardy, M.A. Cai., F.R.S.). See App. XXIV. A. I. (f).

*The Botanic Garden* (Director—H. Gilbert-Carter, M.B., Ch.B. Edin., M.A. Trin.).

*The Scott Polar Research Institute* (Director—Prof. F. Debenham, M.A. Cai.). See App. XXIV. A. (VI.).

In addition the following Research Institutes attached to the School of Agriculture:

*Animal Nutrition Institute* (Director—F. H. A. Marshall, Sc.D., F.R.S. Chr.). See App. XXIV. A. I. (d).

*Plant Breeding Institute* (Director—Emer. Prof. Sir R. H. Biffen, M.A., F.R.S. St. Cath.). See App. XXIV. A. I. (a).

*Virus Diseases of Potatoes Section* (Director—R. N. Salaman, M.D. Trin. H.).

*Horticultural Research Station* (Director—D. Boyes, M.A. Emm.). See App. XXIV. A. I. (b).

*Department of Animal Pathology*. See App. XXIV. A. I. (c).

*Animal Diseases Research Institute* (Director—Prof. J. B. Buxton, M.A., F.R.C.V.S., D.V.H.). See App. XXIV. A. I. (c).

*Small Animal Breeding Institute* (Director—Prof. R. C. Punnett, M.A., F.R.S. Cai.). See App. XXIV. A. I. (d).

*The Molteno Institute for Research in Parasitology* (Director—D. Keilm, M.A. Magd.). See App. XXIV. A. I. (c).

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

The OBSERVATORY (Director—Sir A. S. Eddington, M.A. Trin., D.Sc., F.R.S., Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8½ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12½ in.; a number of smaller instruments, and a good library.

The SOLAR PHYSICS OBSERVATORY (Director—Prof. F. J. M. Stratton, D.S.O., M.A. Cai.) standing close to the older Obs. has the Newall telescope (25 in.), McClean coelostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are held at 480 centres in the U.K. and 200 Overseas, notably in India, Ceylon, Malaya, W. Indies, and W. Africa. Approx. number of candidates in 1932: Home 13,025, Overseas 15,910. Regns. for the School and Higher School Certificate and Junr. exams. and for Certif. of Proficiency in English (for foreign students), may be obtained from Syndicate Buildings, Cambridge. See also, p. 64.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (1.) the



Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the essays written on these questions, and (iv.) the examination. The grades of certificates are . *Terminal*, awarded after a course of ordinarily 12 lectures; *Terminal Certificate in Honours* implying distinction; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures; the *Vice-Chancellor's*, awarded to students who obtain *Terminal* or *Sessional* certs. satisfying certain conditions and submit a satisfactory essay. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational Assocn. Full particulars can be obtained from the Secy., G. F. Hickson, M.A., Stuart House, Cambridge.

THE SUMMER MEETING (University Extension) is held in Cambridge in alternate years and will take place in 1934. In other years there is a Vacation Course for Foreign Students, and also Summer Courses in Geography, History, English Lit., etc.

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assocn. They are managed by a Committee appointed by the Board of Extra-mural Studies, including all the members of the Board nominated by the W.E.A. The Tutorial Classes Summer School is held every year for 3 or 4 weeks.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1930 (fresh editions every 3 or 4 yrs.), 15s.; *Supplementary Ordinances*, 1932, 2s. 6d.; *The Student's Handbook*, annually in early autumn, 7s. 6d.; *Facilities for Study and Research*; *Compendium of Univ. Regns.*, 9d.; *Statutes of the Univ. and Passages from Acts of Parli.*, 5s.; *Endowments of the Univ.*, 1904, 10s. 6d.; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to the year 1751, four volumes), £7: 10s. each vol.; *Matricns. and Degrees* (a list of all those who have entered the Univ.): 1544-1659, 45s.; 1851-1900, 15s.; 1901-1912, 12s. 6d., the *Calendar*, annually (Nov.), 15s.; the *Historical Register*, 20s.; *Historical Register Supplement*: 1911-20, 8s. 6d.; 1921-30, 12s. 6d.; *Index to Tripos Lists*, 1748-1910, 10s.; *The War List of the Univ. of Cambridge*, 1914-1918, 20s.; *University Extension: a Survey of Fifty Years*, by W. H. Draper, 3s. 6d.; *University Ceremonies*, by H. P. Stokes, 7s. 6d.; *The Cambridge Pocket Diary*, annually in Oct., 2s. 6d., with pencil, 3s. 6d. These, and the books mentioned below, Mullinger's and Willis and Clark's, may be had from the Cambridge Univ. Press, Fetter Lane, London, E.C.4, and from all booksellers.

Histories, etc.: (a) *Annals of Cambridge*, by C. H. Cooper (5 vols.); (b) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.); (c) *College Histories*—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each; (d) *Cambridge and its Colleges*, A. Hamilton Thompson; (e) *Cambridge*, T. D. Atkinson and J. W. Clark; (f) *Architectural History of Cambridge*, R. Willis and J. W. Clark, 4 vols; (g) *The Charm of Cambridge*, by S. C. Roberts.

Magazines (unofficial): *The Cambridge Review*, the *Granta*, the *Gownsmen*, the *New Cambridge*, weekly during term.

## RECENT LEGISLATION

For an outline of the new statutes which became operative in 1926, cf. *Year-book* for 1932, p. 66.

## THE YEAR 1931-32

**BENEFACTIONS.** The Goldsmiths' Company endowed a Professorship of Metallurgy. The Trustees of the British Museum, £2000 for the Scott Polar Research Institute. Dr. Bidder, 5000 lire, and the promise of a like sum in 1933, for the benefit of occupants of the Cambridge Table at the Zoological Station at Naples. Dr. Rose, £2000 for the foundation of a Studentship. Mr. G. H. Hallam, an annual prize, value c. £50, to be used for travel in Italy. Countess Martinengo Cesaresco, a bequest of £4000 to Gonville and Caius Coll. for a Univ. Studentship.

**BUILDINGS.** Good progress made with buildings in connexion with the Rockefeller Benefaction: the foundations of the new Univ. Library are complete; the exterior of the extension of the School of Agriculture nearly completed, and work is in progress on the extension of the Physiological Lab. Plans prepared for a large extension of the Zoological Lab., and for the reconstruction of the present building and the Medical School. The Royal Society Mond Lab. for magnetic and cryogenic research completed, and the equipment being installed. The new Literary Lecture Rooms should be ready before the end of the current academical year.

**NEW DEVELOPMENT.** A Sub-Dept. of Aeronautics in the Dept. of Engineering approved, the Francis Mond Prof. of Aeronautical Engin. to be the Director.

**SPECIAL LECTURES** The Rede Lecture was delivered by G. S. Gordon, M.A. Ox. (subject: "Robert Bridges"); six lectures by S. Morison, Sanders Reader in Bibliography (subject: "The Physical Development of the English Newspaper from 1622 to the Present Day"); three lectures by W. R. Halliday (J. H. Gray Foundation, on: "Greek Legend").

**DEATHS.** 1931: J. R. Wardale, Fellow and formerly Sr. Tutor of Clare; Rev. T. C. Fitzpatrick, President of Queens'; J. C. Watt, Sr. Fellow of Jesus; Rev. H. W. Fulford, Sr. Fellow of Clare. 1932: Rev. C. J. Cooper, Trinity; Dame B. S. Newall, Univ. Lectr. in Fac. of Arch. and Anth., Director of Scandinavian Studies, formerly Mistress of Girton; H. W. Bausor, Clare; Rev. Canon R. H. Kennett, Reg. Prof. of Hebrew, Fellow of Queens'; E. H. Griffiths, Hon. Fellow and formerly Fellow of Sidney; Rev. J. H. Gray, Sr. Fellow and Vice-Pres. of Queens'; K. H. Breul, Schröder Prof. of German, Fellow of King's; R. H. Adie, Trin. and St. John's, formerly Sec. of School of Agric.; Muriel W. Onslow, Univ. Lectr. in Biochemistry, formerly Fellow of Newnham; Sir D. J. Tata, Hon. Fellow of Caius; W. Briggs, Jesus; G. Osborn, Emmanuel; Sir R. Threlfall, Hon. Fellow of Caius; J. F. Stout, St. John's; G. Lowes Dickinson, Fellow of King's; E. S. Prior, Slade Prof. of Fine Art, Fellow of Caius.

**HONORARY DEGREES.** LL.D.—Lieut.-Gen. Lord Baden-Powell; Rt. Hon. Viscount Sankey of Moreton, the Lord High Chancellor; Col. Sir Maurice Pascal Alers Hankey, Clerk of the Privy Council; Litt.D.—Prof. Werner Wilhelm Jaeger, Berlin; Prof. John William Mackail, Royal Academy of Arts; Sc.D.—Sir William Henry Bragg, Director of the Royal Institution. M.A.—Hugh Meyrick Meyrick-Jones, M.D. (Durham); Lieut.-Col. William George Grey; Herbert Hunter, D.Sc. (Leeds).

**APPOINTMENTS BOARD.** In 1931, 365 appointments were obtained on the introduction of the Board. These included: educational, 132; manufacturing and technical, 81; administrative posts in commerce and industry, 66; Government departments, mainly scientific, 12; colonial administrative, 14; agriculture and forestry, 25; Indian and Colonial Railways, P.W.D. and

Survey, 5; journalism and publicity, 8; railway traffic, 8; articulated clerkships, 6; medical, 2; miscellaneous, 6.

LOCAL EXAMNS. were held in December 1931 at 418 centres, including 47 in India, 36 in Ceylon, 35 in Straits Settlements and Malay States, 4 in China, 22 in Africa, 25 in W. Indies, and others in Central and S. America, the Bahamas, Bermuda, British Arabia, Cairo, Fiji, Gibraltar, Mauritius, New York, New Zealand, Sarawak, Seychelles, and Switzerland. The number of candidates was 17,924. In July 1932 the examns. were held in 405 centres, of which 34 were overseas, and the number of candidates was 10,748.

STUDENTS (excluding 70 men and 15 women not members of the Univ.) whose homes are in the British Isles: men 4602, women 451; not in the British Isles but within the British Empire: m. 326, w. 16; in foreign countries, m. 176, w. 11. Total: full-time, 5667.

RESEARCH STUDENTS, June 1932, 245, of whom 110 were Cambridge graduates. Their distribution among the various fields of research was as follows: Aeronautics 1, Agric. 14, Anglo-Saxon 3, Anthropol. 6, Astrophysics, 1, Biochem. 18, Botany 17, Classics 9, Crystallog. 2, Divinity 2, Econ. 5, Engin. 8, Engl. 12, Entomol. 2, Forestry 1, Geol. 7, Hist. 15, Law 1, Maths. 29, Metall. 3, Mod. Langs. 9, Moral Sci. 3, Org. Chem. 9, Oriental Langs. 2, Parasitol. 3, Petrol. 4, Pharmacol. 1, Phys. Chem. 16, Physics, 29, Physiol. 2, Psychol. 3, Zool. 8.

BOARD OF EXTRA-MURAL STUDIES. Local Lectures (Univ. Extension): 44 courses of 12 lectures, 9 of 6 lectures. Tutorial Classes: 7 first-yr., 14 second-yr., 11 third-yr. The Summer Meeting was held from July 28 to Aug. 18, and was attended by 490 students. The main subject was "The Contribution of Ancient Greece to Modern Life," the programme being planned and carried through with the help of many members of the Fac. of Classics. The Tutorial Classes Summer School was held for 3 wks. in July and Aug., and was attended by 74 students. 9 extra-mural students were resident in Cambridge for the year (3 being no longer under the direction of the Board). The *Cambridge Bulletin of Extra-mural Studies* was published once, in the Michaelmas Term: a supplement containing a list of classes and courses was issued in the Lent Term.

Students attending Tutorial Classes: men 297, women 326; Local Lecture (Extension Courses), 4605.

DEGREES. LL.D., 1; M.D., 11; Sc.D., 6; Litt.D., 2; B.D., 5; Ph.D., 59; M.Chir., 2; M.A., 714; LL.M., 3; M.Sc., 1; M.Litt., 3; M.B., 44; B.Chir., 75; LL.B., 30; Mus.B., 7; B.A., 1432. Titles of Degrees conferred on Women during the academical year: Ph.D., 7; M.A., 64; M.B., 1; B.Chir., 3; B.A., 119; Mus.B., 2.

## UNIVERSITY OF DURHAM

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY,  
K.G., P.C., M.V.O., LL.D.

VICE-CHANCELLOR—Sir WILLIAM S. MARRIS, K.C.S.I., K.C.I.E., D.Litt.

PRO-VICE-CHANCELLORS—Sir ROBERT A. BOLAM, O.B.E., M.D., LL.D.,  
F.R.C.P.; J. S. G. PEMBERTON, M.A., D.C.L.; Rev. STEPHEN  
R. P. MOULSDALE, M.A., B.D.

DEANS OF FACULTIES—*Theology*: Rev. E. G. PACE, D.D.; *Arts and  
Letters*: B. COLGRAVE, M.A.; *Medicine*: S. McDONALD, M.D.;  
*Science*: W. E. CURTIS, D.Sc.; *Applied Science*: GRANVILLE  
POOLE, B.Sc.; *Music*: Sir E. C. BAIRSTOW, D.Mus.; *Commerce*:  
E. D. McCALLUM, M.A.; *Law*: T. K. JOHNSTON, M.A., LL.M.

PROCTORS—G. R. GOLDSBROUGH, D.Sc., F.R.S.; J. L. BURCHNALL,  
M.C., M.A.

REGISTRAR—H. G. THEODOSIUS, M.A., B. ès L., 38 North Bailey.

LIBRARIAN—E. V. STOCKS, M.A.

### AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass exams., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—Rev. J. C. Wippell, M.A., B.D.; Prof. of Theology—Rev. W. E. Hopkins, M.A.; Prof. of Classics—W. W. C. Dunlop, M.A.; Prof. of Medicine—F. W. Greaves, M.B., D.P.H.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Deputy Visitors—The Chief Justice, the Colonial Secretary, Principal—Rev. J. L. C. Horstead, M.A.; Senior Tutor—Rev. T. S. Johnson, M.A., B.D.; 4 Tutors and 1 Occasional Lecturer.

B. SUNDERLAND TECHNICAL COLLEGE. Founded in 1902. By the Durham University Act of 1908 this College was to be affiliated in the Schools of Engineering and Electrical Engineering when the equipment and staff should be deemed adequate. The affiliation took place in 1930, and in 1931 certain members of the staff were accorded the status of "Recognized Teachers" in the University. The "Recognized Teachers" are represented on the Board of the Faculty of Applied Science. Principal—E. R. Verity, B.Sc., A.R.C.S.

C. The following associated Theological Colleges:

St. Aidan's, Birkenhead; St. Andrew's, Oyo, Nigeria; St. Augustine's, Canterbury; the Bible Churchmen's Missionary Coll., Clifton; Burgh; Chichester; Dorchester; Edinburgh; Highbury; Jamaica; St. John's, Armi-

dale, N.S.W. ; Lichfield ; Lincoln ; Queen's (St. John's, Newfoundland) ; Salisbury ; Selwyn (Dunedin) ; Warminster ; Bishop Wilson School, Isle of Man ; Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Nine terms kept in one of these Colleges, after passing the matricn. examn, may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

## GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852, and more closely, as "The University of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

**LIBRARIES.** See under the Colleges.

**ADMISSION.** See Appendix XXII.

**DEGREES.** B.A., B.Arch., M.A., B.Litt. (obsolete), M.Litt., D.Litt. ; B.Sc., M.Sc., D.Sc. ; B.D., D.D. ; B.C.L., D.C.L., LL.B. ; M.B., B.S., M.D., M.S., D.Ch. ; B.Hy., D.Hy. ; B.D.S., M.D.S. ; B.Mus., D.Mus. ; B.Com., M.Com. ; Ph.D. ; M.Ed.

*Diplomas* in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health ; L.D.S., Lic.Theol.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 1 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing. The LL.B. may be taken by a candidate of Intermediate grade in Arts or Science after a 3 yrs.' course.

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc. degree examn., or who qualifies by passing a special examn. The M.Litt. can be obtained by graduates in Arts or Commerce of Durham after at least 2 yrs.' research under the direction of a member of the University Staff. The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn. The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill. The M.Ed. can be obtained without further residence by graduates of Durham or of an approved Univ. who hold the Dip. in the Theory and Practice

of Teaching of Durham ; by other graduates after a 2 yrs.' course of stud  
*under direction.*

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L. respectively, of 10 yrs.' standing by a sufficient contribution to learning; th  
D.Sc. in the 7th year after admission to B.Sc. ; the D.Mus. by a B.Mus. c  
15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of research work or of practi  
in a hospl. or Mily. or Naval service after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at leas  
in the Univ. and 6 months at least abroad), subsequently to having obtained  
registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health research after obtainin  
the B.Hy. are necessary.

*Degrees, etc., in Theology.* The B.D. examn. is open to candidates who ar  
graduates in Arts of Durham. The Lic. in Theol. is open to members o  
the Church of England only. Nine terms must be kept at one of the Theo  
Colls. in list C above. The Dipl. in Theol. is obtainable by graduates of  
Univ. of the British Empire who keep 3 terms at Durham and pass the Dip  
examn. Residence for a year at an approved Australian Coll. may be accepte  
in lieu of keeping 3 terms at Durham. The D.D. is open to a B.D. of Durha  
who is a Master of Arts of 10 yrs.' standing on submission of a sufficient con  
tribution to learning.

**FEES.** Matricn., £2. Examns. and degrees, £2 to £10 (Examns. for D.Ch  
£20 ; D.Hy., £20 ; Final for M.B., B.S., £15).

**PUBLICATIONS.** *Univ. Calendar* (Oct.), 2s. 6d. ; *Durh. Univ. Gazette*  
4s., 4 times a year ; *Durh. Univ. Journal* (oldest Univ. Mag. in England), onc  
a term, 1s. 6d.

## THE YEAR 1931-32

**NEW DEVELOPMENTS.** Report of representative University Committee c  
"Entrance tests and Bachelors' degrees" sent to leading educational authorit  
and bodies. Annual publication of abstracts of doctorate theses decided o  
Representatives of "Recognized Teachers" of Sunderland Tech. Coll. c  
Faculty of Applied Sci. Univ. becomes member of Universities Bureau o  
the British Empire.

**HONORARY DEGREES.** *D.D.*—Rt. Rev. B. F. Simpson. *D.C.L.*—Fd  
Marshal Sir W. R. Birdwood, Sir F. G. Hopkins, Sir A. M. Sutherland. *D.Sc.*—  
Mr. C. H. Merz. *D.Litt.*—Prof. R. W. Chambers, Sir J. H. Marshall. *D.Mu*  
—Mr. John Ireland. *M.A.*—Col. L. Newcombe, Mr. T. H. Spencer, Ald. S. J  
Swan. *M.Sc.*—Mr. J. H. Marr, Mr. C. E. Robson.

**STUDENTS READING FOR DEGREES AND DIPLOMAS OF THE UNIV.** Fu  
time, 1439. Part-time, 126.

**DEGREES.** M.D., 24 ; D.Sc., 2 ; D.Hy., 1 ; D.Mus., 3 ; Ph.D., 7 ; M.A.  
51 ; M.Sc., 15 ; M.Litt., 2 ; M.Com., 1 ; M.Ed., 4 ; B.C.L., 2 ; M.B. and B.S.  
31 ; B.A., 160 ; B.Sc., 137 ; B.Hy., 6 ; B.Mus., 7 ; B.Com., 9 ; B.D.S.,  
L.Th., 27 ; Dip.Th., 13 ; D.Th.P.T., 133 ; D.P.H., 7 ; L.D.S., 2.

**TUTORIAL CLASSES (W.E.A.) AND EXTENSION COURSES.** The total no.  
Advanced Classes was 1, of Tutorial Classes 51, of Extension Courses 32,  
Preparatory Classes 6 ; districts served : the counties of Durham, Northur  
berland, Cumberland and Westmorland.

## DURHAM DIVISION

*President of Council*—J. S. G. PEMBERTON, M.A., D.C.L.

*Secretary of the Council*—J. L. BURCHNALL, M.C., M.A.

*Secretary of Examinations*—.....

*Prælector*—S. R. P. MOULSDALE, M.A., B.D.

*Treasurer*—F. W. RITSON, M.A.

*Librarian*—E. V. STOCKS, M.A.

*Sub-Librarian*—D. RAMAGE, M.A. Edin.

## PROFESSORS AND LECTURERS

### *Archæological Research*

Birley, E. B., B.A. Ox.      Lectr.

### *Botany*

Griffiths, B. M., D.Sc. Birm.,  
F.L.S.      Reader.

Chalklin, Kathleen M., M.Sc.  
Wales      Lectr.

### *Chemistry*

Masson, J. I. Orme, D.Sc. Melb.,  
F.I.C.      Prof.

Christie, G. H., M.Sc., Ph.D. Sheff.  
Lectr.

Gibby, C. W., M.Sc., Ph.D. Lond.  
Lectr.

Waters, W. A., M.A., Ph D. Camb.  
Lectr.

### *Classics*

Richards, Rev. G. C., M.A., D.D.  
Ox. (Greek and Class. Lit.)

How, Rev. J. H., M.A. Ox. (Latin)  
Prof.

Boden, J. P., M.A.      Lectr.

Body, L. A., M.A. Camb.      Lectr.

Donaldson, Rachel E. D., M.A.  
Ox. and Durh.      Lectr.

Norman, R. T., M.A. Lond., B.A.  
Ox.      Lectr.

Wright, R. P., B.A. Camb.

### *Divinity and Eccl. History*

Dawson-Walker, Rev. D., M.A.,  
D.D. Ox.      Prof.

Pace, Rev. E. G., M.A., D.D. (Div.)  
Reader.

Hawthorn, J. C., M.A.      Lectr.

### *Economics*

Helsby, L. N., B.A. Ox.      Lectr.

### *Education and Psychology*

Robinson, A., M.A., D.C.L. Prof.

Willatt, J. F., M.A. Camb.  
Lectr. (Ed.).

### *English Lang. and Lit.*

Abbott, C. C., M.A. Lond., Ph.D.  
Camb.      Prof.

Colgrave, B., M.A. Camb. Reader.

Longland, J. L., B.A. Camb. Lectr.

### *French*

Sells, A. L., M.A. Camb., D. ès L.  
Paris      Prof.

Scott, Ethel M., M.A. Lond.  
Lectr.

Dodds, Muriel, M.A. Camb., Doc.  
de l'Univ. Paris      Lectr.

Corbett, J. A., B.A. Asst. Lectr.

Poujade, Y.      Asst.

Manley, Audrey F., M.A., A.R.C.M.  
Asste.

Gandilhon, C.      Asste.

### *Geography*

Manley, G., M.A., B.Sc. Camb.  
Sylvester, Dorothy, M.A. Liv.  
Lectr.

### *Geology*

Holmes, A., D.Sc. Lond., F.G.S.  
Hopkins, W., M.Sc., Ph.D. Lectr.

*German*

Houston, Gertrude A. C., M.A.  
Belf., Lond., and Durh. Lectr.

*Hebrew and Oriental Langs.*

Thomas, David W., M.A. Ox. Prof.

*History*

Whiting, Rev. C. E., M.A., D.D.,  
B.C.L. Prof.

*Lecturers :*

Hood, F. C., M.A. Edin.  
Douie, Decima L., B.A., Ph.D.  
Braley, Rev. E. F., M.A., LL.M.  
Camb.

Methuen, Betty V. W., M.A.

*Liturgiology*

Mouldsdales, Rev. S. R. P., M.A.,  
B.D. Lectr.

*Logic*

Wallis, Rev. C. S., M.A. Lectr.

*Mathematics*

[Prof.  
Heawood, P. J., M.A. Ox., D.C.L.  
Burchnall, J. L., M.C., M.A. Ox.  
Reader.

Baxter, E. F., M.A. Camb., M.Sc.  
Lond. Lectr. (Applied M.).

*Music*

Bairstow, Sir E. C., D.Mus. Prof.

*Palæography*

Bayley, K. C., M.A. Hon. Reader.

*Philosophy*

Macgregor, R., M.A. Lectr.

*Physics*

Wagstaff, J. E. P., M.A., D.Sc.  
Camb. Prof.

Chalmers, J. A., B.A., Ph.D.  
Camb., B.Sc. Lond. Lectr.

Prowse, W. A., B.Sc., Ph.D. Lectr.

*Psychology, v. Educn.**Theology, v. also Div.*

Coleman, Rev. N. D., M.A. Camb.  
Lectr. in T. and Hellen-  
istic Greek.

*University Extension*

35 Tutors and Lecturers were  
employed, of whom 6 were  
members of the University  
Staff. Secy. to the Joint  
Committee: Rev. Dr. Pace.  
Organizing Secy. of N.E.  
District of W.E.A.: J. B.  
Hall.

## THE DURHAM COLLEGES

UNIVERSITY. Master—Rev. J. H. How, M.A. Censor—C. C. Abbott,  
M.A., Ph.D. Bursar—A. A. Macfarlane-Grieve, M.A. Chaplain—Rev. N. D.  
Coleman, M.A.

HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chap-  
lain—Rev. E. G. Pace, M.A., D.D. Tutor in English—B. Colgrave, M.A.  
Censor—B. Colgrave, M.A. Bursar—A. A. Macfarlane-Grieve, M.A.

ST. CHAD'S. Principal and Chaplain—Rev. S. R. P. Mouldsdales, M.A., B.D.  
Vice-Principal—Rev. C. E. Whiting, M.A., D.D., B.C.L. Classical Lectr.—  
L. A. Body, M.A. Fellow, Tutor, and Bursar—Rev. J. P. Boden, M.A.  
Junior Tutor—Rev. C. I. Pettitt, B.A.

ST. JOHN'S. Principal—Rev. C. S. Wallis, M.A. Vice-Principal—J. C.  
Hawthorn, M.A. Chaplain—Rev. C. H. G. Davey, B.A. Lectr. in Hebrew  
and Bursar—W. H. A. Learoyd, B.A. Classical Lectr.—O. W. Whaley, M.A.

ST. MARY'S (for women). Principal—Rachel E. D. Donaldson, M.A.; Senior  
Tutor and Censor—Betty V. W. Methuen, M.A. Junior Tutor and Secretary  
—Eileen Wilkes, B.A. Domestic Bursar—Amy D. Johns.



\***BEDE** (Training College for men). Principal—Rev. E. F. Braley, M.A., LL.M. Vice-Principal—D. E. Webster, B.Sc. Lectrs.—Rev. M. C. Petitpierre, M.A.; L. T. Crawhall, B.A., M.R.C.S.; C. R. Wheatley; C. S. Axon; W. J. Ingram; J. W. Roe, M.A.; Rev. J. T. Hughes, B.A.; H. Oldman, M.A.; E. Hutchinson, M.A.

\***ST. HILD'S** (Training College for women). Principal—Eleanor C. Christopher, M.A. Lectrs.—Winifred Hindmarch, M.Litt.; Jean Templeton, M.A.; Barbara McRae, B.A.; Gladys Hinde, B.A.; Sylvia Blackham; Mary Maxwell, M.A.; Honor Brown; C. Maude, F.R.C.O., A.R.C.M.

\***NEVILLE'S CROSS** (Training College for women). Principal—Zeta G. D. May, M.A. Lectrs.—Mary Benson, M.A., B.Sc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc.; Netty M. Lunan, M.A.; Dorothy Price, M.A.; Agnes Bibby, L.R.A.M.; Agnes I. Champ; Ethel B. Row; C. Maude, F.R.C.O., A.R.C.M.

NON-COLLEGIATE STUDENTS. Censor—Rev. N. D. Coleman, M.A.

HOME STUDENTS (Women). Censor—Gertrude A. C. Houston, M.A.

## GENERAL INFORMATION

For early history, see *Yearbook* for 1929.

**LIBRARY**, 41,000 vols., 157 incunabula; including rare theological and patristic books. Separate Science Library in the Department of Science. **OBSERVATORY** with almucantar, seismograph, etc.

**ADMISSION**. See Appendix XXII.

**FEES**. Including admission, tuition, exams., board and lodging, subscriptions and gratuities, at Univ. College, £113 p.a.; Hatfield, £106; St. Chad's, £116; St. John's, £110; St. Mary's, £106; St. Hild's, £50-£60; Neville's Cross, £45. Non-Coll. students pay £30 p.a. in Arts, £36 p.a. in Science, Univ. fees including club subscriptions; average cost of board and lodging per term £18 to £24.

**FELLOWSHIPS**. 3 Research, £120, open only to candidates who have kept terms and taken B.A. in Durham Division. Pemberton Research Fellowship, £120, and Centenary Fellowship, £125, open only to candidates who have kept terms and taken B.Sc. in Durham Div.

## THE YEAR 1931-32

**BENEFACTIONS**. Valuable collection of books from the Library of the late Prof. of English. Also collection of about 1800 books from the collection of the late Bishop of Jarrow. £1000 from the Emma Richardson Estate for the School of Theology.

**NEW BUILDINGS**. Hatfield College New Building completed.

**NEW POST**. New Asst. Lectr. in the School of Mod. Langs.

**OTHER DEVELOPMENTS**. New Meteorological Station and a freshwater biology laboratory (Butterby Pool) opened.

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\* Colleges under the Board of Education licensed by the Council of Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

VISIT OF MEMBER OF STAFF TO ANOTHER UNIVERSITY. Prof. Arthur Holmes delivered the Lowell Lectures at Harvard Univ.

RETIREMENTS. A. P. Whitaker (Classics), Edith M. Higgins (Botany).

DEATHS. Rev. Prof. H. Ellershaw (English), the Bishop of Jarrow (Theol.), J. M. Falkner (Palæogr.).

STUDENTS. Full-time: total, 475, including 55 graduates. Part-time: total, 7, including 7 graduates.

DEGREES OBTAINED. B.A., 109; B.Sc., 23; M.A., 32; D.Mus., 2; M.Litt., 2; B.Mus., 7; B.C.L., 2; L.Th., 27; Dip.Th., 13; D.Th.P.T., 47.

## COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

*Chairman of the Court of Governors*—R. G. E. MORTIMER, O.B.E., J.P., M.A.

*President of the College, Vice-Chairman of the Court of Governors*—Sir THOMAS OLIVER, D.L., M.A., D.C.L., M.D., LL.D., D.Sc., F.R.C.P.

*Chairman of Council*—Sir ROBERT A. BOLAM, O.B.E., J.P., LL.D., M.D., F.R.C.P.

*Vice-Chairman of Council*—R. P. RANKEN LYLE, M.A., M.D., B.Ch.

*Treasurer*—Sir JOSEPH REED.

*Dean of the College*—STUART McDONALD, M.A., M.D., F.R.C.P.E., F.R.S.E.

*Registrar*—GEORGE HALL, C.M.G., M.D., B.Sc., F.R.C.P.

*Secretary of Examinations*—D. BURNS, M.A., D.Sc. Glas.

### PROFESSORS, LECTURERS, ETC.

<i>Anæsthetics</i>		Director of Routine Laboratory :	
Tate, E., M.D., B.S.	Lectr.	Warren, S. H., M.R.C.S., L.R.C.P., D.P.H.	
Tutors :		Norton, R., M.B., Ch.B., D.P.H.	Asst.
Armstrong, F. G., M.B., B.S.		Iredale, J. L. G., M.B., Ch.B., D.P.H.	Asst.
Campbell, L. M. R., M.A., M.B., Ch.B. St. And.			
Markham, H. H., M.B., B.S.			
Osselton, E. W., M.B., B.S.			
Peet, E. L., M.B., B.S., L.D.S.			
Phillips, W. J., B.Sc., M.B., B.S.			
Seymour, W., M.B., B.S.			
<i>Anatomy</i>		<i>Biology</i>	
Green, R. B., M.A., M.B., B.S. Lond., F.R.C.S.	Prof.	Beadle, L. C., M.A. Camb.	Lectr.
Whillis, J., M.D., M.S., F.R.C.S.	Lectr.	<i>Chemistry, Organic, and Bio-Chemistry</i>	
Rose, J. D., M.B., B.S., M.R.C.S., L.R.C.P.	Demr.	Saunders, J. A., M.Sc., Ph.D.	Lectr.
Lectrs. in Appl. A. :		<i>Children, Diseases of</i>	
Lickley, J. D., M.D. Glas.		.....	Lectr.
Gilmour, J., M.B., B.S., F.R.C.S.		<i>Dentistry, v. infra</i>	
<i>Bacteriology</i>		<i>Dermatology</i>	
Dunlop, E. M., M.C., M.D. Glas.	Prof.	Bolam, Sir Robert, O.B.E., LL.D. Glas., M.D., F.R.C.P.	Lectr.
Kellett, C. E., M.A., M.D., Ch.B. Camb., M.R.C.P.	Asst. Lectr.	<i>Dermatology, Clinical</i>	
		Thompson, S., M.D., B.S.	Asst.
		Bolam, R. Mason, M.A., M.B., B.Ch. Camb.	Asst.
		<i>Hygiene, v. Pub. Health</i>	

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## *Laryngology, Otology, and Rhinology, Clinical*

Wilson, W. F., M.B., B.S. Lectr.  
 Whillis, R., M.A., M.B., B.Chir.  
 Camb., F.R.C.S.E. Asst.

## *Materia Medica and Pharmacology*

Hall, G., C.M.G., M.D., B.Sc.,  
 F.R.C.P. Lectr.

## *Electrotherapeutics*

Davidson, S. W., M.D., B.S. Lectr.  
 Ramage, D., M.D., Ch.B. Manc.,  
 D.M.R.E. Liv. Asst.

## *Medical Jurisprudence*

Nattrass, F. J., M.D., B.S.,  
 F.R.C.P. Lectr.

## *Medicine, Principles and Practice*

Beattie, T., M.D., F.R.C.P. Prof.  
 Hume, W. E., C.M.G., M.A., M.D.,  
 B.C., F.R.C.P. (and Clin. M.).  
 Lectr.  
 Drummond, H., M.D., B.S. Lectr.

## *Medicine, Clinical*

Lectrs. :  
 Hume, W. E. (v. Med. Princ. and  
 Prac.).  
 Drummond, H. (v. Med.).  
 Parkin, A. (v. Therapeutics).  
 Hall, G. (v. Mat. Med.).  
 Hunter, T. C., M.D., B.S.  
 Nattrass, F. J. (v. Med. Juris.).  
 Spence, J. C., M.D., F.R.C.P.  
 Armstrong, C. N., M.B., B.S.,  
 B.Hy., D.P.H., M.R.C.P.

## *Tutors :*

Ogilvie, A. G., M.B., B.S., M.R.C.P.  
 Ungley, C. C., M.D., B.S., M.R.C.P.  
 Lennox, J. A., M.B., B.S.  
 Swan, W. G. A., M.B., B.S.

## *Midwifery and Gynaecology*

Lyle, R. P. R., M.A., M.D. Dub.  
 and Durh., B.Ch., B.A.O.  
 Dub. Prof.

Murray, E. F., M.D. St. And.,  
 F.R.C.S.

Lectr. & Clin. Lectr.

Lectrs. in Clinical M. :

Ruxton, W. L., M.B., C.M.  
 Campbell, L. Mabel R., M.A.,  
 M.B., Ch.B.

Evers, H. Harvey, M.B., M.S.,  
 F.R.C.S.

Weeks, L. M., M.A., M.D., B.Ch.  
 Stahler, F. E., M.D., B.S., F.R.C.S.

## *Ophthalmology*

[Prof.  
 Wardale, J. D., M.A., M.B., B.S.

## *Ophthalmology, Clinical*

Arkle, J. S., M.B., B.S. Lectr.  
 Ingram, H. V., M.B., B.S.,  
 M.R.C.S., D.O.M.S. Asst.

## *Pathology and Clin. Path.*

[Prof.  
 McDonald, S., M.D. Edin., M.A.,  
 F.R.C.P.E., F.R.S.E.

Shaw, A. F. B., B.A., M.D. Dub.,  
 F.R.C.P.I., D.P.H. Lectr.

Herbert, Freda K., M.A. Camb.,  
 M.B., B.S. Lond., M.R.C.S.,  
 L.R.C.P. Lectr.

## *Demrs. :*

Stephenson, G. E., M.C., B.Sc.,  
 M.D., B.S.

McDonald, Junr., S., B.A., M.B.,  
 B.Chir. Camb., M.R.C.S.,  
 L.R.C.P.

Spence, J. C. (v. Med., Clin.) (Medi-  
 cal Path.).

Wardill, W. E. M., M.B., B.S.,  
 F.R.C.S. (Surgical Path.).

Evers, H. H. (v. Midw. Clin.)  
 (Gynæc. Path.).

## *Physiology*

[Prof.  
 Burns, David, M.A., D.Sc. Glas.

Secker, J., M.Sc., L.R.C.P.,  
 M.R.C.S. Lectr.

Henderson, Nellie, B.Sc. Lond.  
 Demr.

Ogilvie, A. G., M.B., B.S.,  
 M.R.C.P. Demr.

## *Psychological Medicine*

MacPhail, H. D., O.B.E., M.A.,  
 M.D. Lectr.

*Public Health*

Kerr, H., O.B.E., M.A., M.D.,  
Ch.B. Edin., D.P.H. Prof.

*Surgery*

Turner, G. G., M.B., M.S., F.R.C.S.,  
F.A.C.S. (and in Clin. S.) Prof.

Clay, J., C.B.E., M.B., B.S.,  
F.R.C.S. Lectr.

Willan, R. J., M.V.O., K.H.S.,  
M.B., M.S., F.R.C.S. Lectr.

Hodgson, N., M.B., M.S., F.R.C.S.  
(Op. S.) Lectr.

*Clinical Lectrs. :*

Willan, R. J. (v. Surg.).

Pybus, F. C., M.B., M.S., F.R.C.S.

Johnston, H. M., B.A., M.B. Belf.,  
F.R.C.S.

Barclay, J. H., M.D., M.S., F.R.C.S.

Hodgson, N., M.B., M.S., F.R.C.S.

Hindmarsh, T. A., M.B., M.S.,  
F.R.C.S.

Gilmour, J., M.B., M.S., F.R.C.S.

Whyte, A. H., M.B., M.S., F.R.C.S.

Hewitson, W. A., M.B., B.S. Lond.,  
M.B., M.S., F.R.C.S.

Wardill, W. E. M., M.B., B.S.,  
F.R.C.S.

Brumwell, J., M.B., B.S., F.R.C.S.

*Surgical Registrars :*

Mason, G. A., M.B., B.S., F.R.C.S.

Watts, W. P. T., M.B., M.S.,  
F.R.C.S.E.

Saint, J. H., M.D., B.S., M.S.  
Minn., F.R.C.S.

*Surgical Tutors :*

Clark-Maxwell, G. S., M.A. Camb.,  
M.B., B.S.

Feggetter, G. Y., M.B., B.S.

Larks, G. E., M.B., Ch.B. Sheff.,  
F.R.C.S.E.

Logan, A., M.B., Ch.B. St. And.,  
F.R.C.S.E.

Stanger, J. K., M.B., B.S.,  
L.R.C.P., M.R.C.S.

Ungley, H. G., M.D., B.S.,  
L.R.C.P., M.R.C.S.

*Therapeutics*

Parkin, A., M.D., F.R.C.P.,  
F.R.C.S.

*Zoology, v. Biol.**Dentistry**Lectrs. :*

Laing, A. M., L.D.S. (D. Anat.  
and Physiol.).

Wilson, G. E., L.R.C.P. and S.,  
L.M., L.D.S., R.C.S. Ire. (D.

Mechs.).

Lotting, C., L.D.S. Edin. (D. Me-  
tallurgy).

Coltman, J., L.D.S. (D. Surg. and  
Path.).

Hutson, W., L.D.S. (Op. D. Surg.).

Cooper, E. R., L.D.S. Edin.  
(Orthodontics).

Seymour, W., M.B., B.S. (D.  
Anæsthetics).

Davis, H., L.D.S. (D. Mat. Med.  
and Therap.).

Secker, J. (v. Physiol.) (D. His-  
tology).

Reay, R. H., L.D.S. (Radiol.).

Long, J. J., L.D.S. Glas. (D.  
Metall.) Asst Lectr.

*Clinical Teachers in the Dental  
Hospital :*

Haggarty, T. R., L.D.S. Glas.

Scott, J. L., L.D.S. Glas.

Jameson, A., L.D.S. Edin.

Lotting, C., L.D.S. Edin.

Richardson, E. Y., L.D.S. Edin.

Laing, A. M., L.D.S. Edin.

Gibbon, E., L.D.S. Eng.

Davis, H., L.D.S. Glas.

Cooper, E. R., L.D.S. Edin.

Haswell, S. V., L.D.S. Edin.

Vincent, S. C., L.D.S. Glas.

Long, J. J., L.D.S. Glas.

Atkinson, J. A., L.D.S.

Tutorial D. Surgeon.

**GENERAL INFORMATION**

Instruction in Clinical Medicine and Surgery is given in the Royal Victoria Infirmary (560 beds) and other hospitals ; in Practical Midwifery and Clinical

## DURHAM: COLLEGE OF MEDICINE, NEWCASTLE 75

Gynæcology at the Princess Mary Maternity Hospital. The Pathological Museum provides an exceptional collection of specimens prepared by modern methods. Post-graduate teaching is supervised by a committee representing the College and the hospitals. Research facilities are available in the various departments.

**LIBRARIES.** An annual contribution is made to the Library at Armstrong College. In the Medical Section of the Armstrong College Library available for students of the College of Medicine there are over 15,000 volumes. Departmental libraries, 768 volumes.

**MUSEUMS.** Anat., Hygiene, Mat. Med., Path.

**ADMISSION.** See Appendix XXII.

**SCHOLARSHIPS** open to undergraduate students of the College vary from £20 to £60 p.a.; open to graduates, £200 every second year and £180 every third year, and grants for surgical research.

**FEES.** *For tuition:* M.B., B.S. (5 yrs.' course), £235 : 12 : 6; L.D.S. (4 yrs.' course), £259 : 13s.; B.D.S. (5 yrs.' course), £285 : 18s. (in each case including all hospital fees and subscriptions to Students' Union). *For examinations:* Pre-Registration, £3 : 3s.; M.B., B.S., £30; M.D., £5; M.S., £5; D.Ch., £20; B.Hy., £12 : 12s.; D.P.H., £12 : 12s.; D.Hy., £20; D.Psy., £10 : 10s.; L.D.S., £15 : 10s.; B.D.S., £23; M.D.S., £5. *For degrees:* M.B., £6 : 6s.\*; B.S., £6 : 6s.; M.D., £10; M.S., £6 : 6s.; D.Ch., £10; B.Hy., £6 : 6s.\*; D.P.H., £3; D.Hy., £10; D.Psy., £3; L.D.S., £3; B.D.S., £6 : 6s.\*; M.D.S., £6 : 6s.; Ph.D., £5\*. (When a degree marked \* is an initial degree at the University the sum of 10s. is added.)

## THE YEAR 1931-32

**BENEFACTIONS.** A further sum of £2600 from Sir Arthur Sutherland, Bart., K.B.E. (in addition to his original gift of £10,000) for the completion of the Dental Hosp. and School. Public Subscriptions to the College Funds amounted to £50.

**NEW BUILDINGS.** A new Dental Hosp. and School in the grounds of the Royal Victoria Infirmary opened on Jan. 28, 1932, by the Chancellor of the Univ. The Dental School is an integral part of the Coll. of Med.; the Dental Board of the U.K. has approved the Dept. for grants of bursaries to approved students.

**NEW POSTS.** A whole-time lectr. in Biol.; a whole-time lectr. in Org. and Bio-Chemistry; a whole-time lectr. and tutor in Dental Mechanics and Prosthetics; an asst. lectr. (pt.-time) in Bacteriol.; a whole-time lectr. in Pathol. Chemistry; a pt.-time lectr. in Oper. Surg.; a pt.-time lectr. in Surg. (special charge—dental students); and a pt.-time lectr. in Med. (special charge—dental students).

**VISITS OF TEACHERS.** Prof. Edward Mellanby, Prof. of Pharmacol., Univ. of Sheffield, lectured on "Some Vitamin Investigations in Relation to Medicine"; Prof. J. J. R. Macleod, Reg. Prof. of Physiol., Univ. of Aberdeen, lectured on "Diabetes as a Physiological Problem."

**RETIREMENTS.** Dr. D. Wells Patterson (Clin. Med.), Sir Robert Bolam (Clin. Dermatol. and Ven. Dis.), Dr. O. W. Ouden (Dis. of Children).

**STUDENTS.** Full-time, 315, including 1 graduate and 1 diplomate. Part-time, 99, including 98 graduates.

**DEGREES AND DIPLOMAS.** M.D., 24; Ph.D., 1; D.Hy., 1; B.Hy., 6; M.B., B.S., 31; B.D.S., 1; D.P.H., 7; L.D.S., 2.

# ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

*President of the College*—Rt. Hon. VISCOUNT GREY OF FALLODON, K.G., P.C., D.C.L.

*Chairman of Council*—CECIL A. COCHRANE, M.A., D.C.L., J.P.

*Vice-Chairman of Council*—WILFRED HALL, M.A., D.Sc.

*Principal*—Sir WILLIAM S. MARRIS, K.C.S.I., K.C.I.E., B.A. New Zeal., D.Litt.

*Registrar and Secy. of Examinations*—W. S. ANGUS, M.A. Ox., LL.B. Liv.

*Bursar*—R. N. WILKINSON.

*Librarian*—F. BRADSHAW, M.A. Ox. and Durh., D.Sc. Lond.

## PROFESSORS, LECTURERS, ETC.

### *Accounting*

Bell, Albert, F.C.A. Lectr.  
Allan, T. K., A.C.A. Asst. Lectr.

### *Agriculture and Rural Economy,* v. also Forestry, Vet. Sc., Dairy Bact.

Hanley, J. A., A.R.C.S. Lond.,  
Ph.D. Munich Prof.  
Wheldon, R. W., D.Sc. Lectr.  
Pawson, H. C. Lectr.  
Adam, D. T., B.Sc. Aberd. (Land  
Surv., etc.) Lectr.

### *Agricultural Botany*

Harrison, Miss H. H., M.Sc. Lectr.

### *Agricultural Chemistry*

Thomas, B, M.Sc. Adviser.  
Hall, A. A., M.Sc. Liv. and Manc.  
and Durh., Ph.D. Jena, F.I.C.  
Lectr.  
Elliott, F. J., B.Sc., Ph.D.  
Research Asst.

### *Agricultural Economics*

Dinsdale, D. H., M.A. Adviser.  
Harris, A. E., B.Sc. Lond.  
Tech. Asst. to Adviser.  
Glaister, W. W., B.Sc.  
Student Asst. to Adviser.

### *Agricultural Mycology* [Adviser.

Bennett, F. T., B.Sc., Ph.D. Lond.

### *Agricultural Zoology*

Gray, R. A. H., M.A., B.Sc. Aberd.,  
M.Sc. Adviser.

### *Archæology*

Birley, E. B., B.A. Ox. Lectr.

### *Art* (School of Fine Arts)

Mainds, A. D., A.R.S.A.  
Prof. and Dir. of School.  
Bertram, R. J. S., M.A. (Design).  
Lyon, R. (Painting).  
Maryon, H. J., Assoc. Univ. Read.  
(Sculpture).  
Cordingley, R. A., M.A. Manc.,  
F.R.I.B.A. (Archit.).  
Heslop, A., M.A. (Engraving).  
Lall, Mrs. D. M., B.A. Birm. (Art  
Teaching).  
Willis, Miss R., A.R.C.A. (Crafts).  
Cahill, T. J., B.A. Manc. (Archit.)  
Lectr.  
Thomson, Miss M. (Pottery).  
6 Assts.

### *Botany*, v. also Agric.

Harrison, J. W. H., D.Sc., F.R.S.  
Prof. and Reader in  
Genetics.  
Blackburn, Miss K. B., D.Sc.  
Lond., F.L.S. Lectr.

# DURHAM : ARMSTRONG COLLEGE, NEWCASTLE 77

Bartlett, A. W., M A. Camb., B.Sc.  
 Lond., M.Sc., F.L.S. Lectr.  
 Thomas, Meirion, M.A. Camb. Lectr.

*Chemistry*, v. also Agr  
 Clemo, G. R., Ph.D., D.Sc. Lond.,  
 D.Phil. Ox.

(Org. C.) Prof. and Dir.  
 of Dept.

Riley, H. L., D Sc. Lond., D.I.C.  
 (Inorg. and Phys. C.) Prof.

Robinson, P. L., D.Sc., F.I.C.  
 Lectr.

Madgin, W. M., M.Sc. Lectr  
 Mallen, Miss C. E., M.A. Camb.

Lectr.  
 Leitch, Miss G. C., M.A., B.Sc.,  
 Ph.D. St. And. Lectr.

Haworth, R. D., M.Sc., Ph.D.  
 D.Sc. Manc., F.I.C. Lectr.

Sayce, L. A., M.Sc., Ph.D. Lectr.  
 Raper, R., M.A., Ph.D. Camb. ,,

## *Classics and Ancient History*

Duff, J. Wight, M A. Aberd. and  
 Ox., D Litt. Ox. and Durh ,  
 LL.D. Aberd. Prof.

Shipley, Miss C. M., M.A. Lectr.  
 Waddell, W. G., M.A. Glas. and  
 Lond. Lectr.

Whittick, G. C., M.A. Ox. Lectr.

## *Crystallography and Mineralogy*

Fletcher, Rev. M., M.A. Camb. and  
 Durh., M.Sc., F.G.S. Lectr.

## *Dairy Bacteriology*

Westwater, C. H., M.A., B.Sc.  
 Glas. Adviser.

## *Economics*, v. also Accounting, Law

Hallsworth, H. M., C.B.E., M.A.  
 Manc., M.Com. D. Dale Prof.

McCallum, E. D., M.A. Glas. Lectr.  
 Highton, H. E. R., M.A. Glas. ,,

Allen, E., M.A. Sheff. Lectr.

## *Education*

Smith, Frank, M.A. Camb., B.Sc.  
 Manc., Ph.D. Wales Prof.

Melville, Ellen L., M.A. Leeds  
 and Durh. Lectr.

Brown, V., O.B.E., T.D., M Sc.  
 Lectr.

Bailes, Stella, B.Sc. Lectr.

Williams, W. M., B.A. Ox. Lectr.

Hawthorn, Miss C. M., M A., B.Sc.

Warden of Women's Hostel.

Leitch, Miss G. C., M.A., B.Sc.,  
 Ph.D. St. And.

Asst. Warden of Women's  
 Hostel.

## *Engin., Mechanical, Marine and Civil*, v. also Nav Arch.

Hawkes, C. J., M.Sc., M.I.N.A.,  
 M.I.Mech.E. Prof.

Morrow, J., T.D., M.Sc. Manc. and  
 Durh., D.Eng. Liv. Reader.

Hardy, G. F., M.Sc. Lectr.

Dixon, J. T. H., M.Sc. Lectr.

Martin, H. E. L., B.Sc. Bris. and  
 Lond. Lectr.

Talbott, A. C., M.Sc. Birm. Lectr.

Boulton, N. S., M.Sc. Birm. Lectr.

O'Grady, S. C., B A. Dubl. Lectr.

Patrick, J. S., M.Sc. Glas. Lectr.

## *Engineering, Electrical*

Thornton, W. M., O.B.E., D.Sc.  
 Manc., Liv., and Durh.,  
 D.Eng. Liv. Prof.

Dickinson, J., M A. Ox., M.Eng.  
 Sheff. Lectr.

Wilcken, J. A., B.Sc. Copenhagen  
 and Lond., Ph.D. La Plata

Lectr.

## *English*

Renwick, W. L., M.A., D.Litt.  
 Glas., B.Litt. Ox.

J. Cowen Prof.

Wragge, Sybil, M.A. Lectr.

Elmes, R. S., M.A. Camb. Lectr.

Orton, H., M.A., B.Litt. Ox.  
 Lectr.

## *French*, v. Modern Langs.

## *Geography*

Daysh, G. H. J., B.Litt. Ox. Lectr.

Morris, F. G., M.A. Ox. and Lond. ,,

## *Geology*, v. also Cryst.

Hickling, H. G. A., D.Sc. Manc.,  
 M.Sc. J. B. Simpson Prof.

Mockler, G. S., B.Sc. Manc. Lectr.



Raistrick, A., M.Sc., Ph.D. Leeds

Lectr.

Tomkeieff, Serge Lectr.

*History, Modern* [Prof.

Morison, J. L., M.A., D.Litt. Glas.

Bradshaw, F., M.A. Ox. and Durh.,  
D.Sc. Lond. Lectr.

Tomkeieff, Mrs. O. G., M.A., LL.B.  
Camb. Lectr.

Cobban, A. B. C., M.A., Ph.D.  
Camb. Lectr.

Matheson, C., M.A. Temp. Lectr.

*History, Ancient, v. Classics*

*Law*

Johnston, T. K., M.A., LL.M.  
Camb. Lectr.

Charlesworth, J., LL.D. Lond.  
Asst. Lectr.

Muir, C. W., M.A., LL.B.  
Lectr. (Company Law).

*Mathematics*

Havelock, T. H., M.A. Camb.,  
D.Sc., F.R.S.

Prof. and Director of  
Dept.

Goldsbrough, G. R., D.Sc., F.R.S.  
Prof. and Reader (Dyna-  
mical Astron.).

Caunt, G. W., M.A. Camb. and  
Durh., M.Sc. Reader.

Colborne, D. C., M.A. Camb. Lectr.

Miles, W. H., B.A. Ox. Lectr.

Mulholland, H. P., M.A., Ph.D.,  
Camb. Lectr.

*Metallurgy*

Smythe, J. A., D.Sc. Durh., Ph.D.  
Gött. Wm. Cochrane Lectr.

Pearson, C. E., M.Met. Sheff. „

*Military Science*

Peart, Capt. T. E., M.C. Lectr.

*Mining*

[Milburn Prof.

Poole, Granville, B.Sc. Birm.

Whetton, J. T., M.C., M.Sc. Leeds  
Lectr.

Wedgwood, A., M.Sc. Lectr.

Mason, G. A., M.B., B.S., F.R.C.S.  
Lectr. in First Aid.

*Modern Languages*

Girdlestone, C. M., M.A. Camb.,  
L. ès L. Paris

Prof. of French and  
Director of Dept.

Lectrs. :

Macgregor, Lhas, M.A. Edin. and  
Durh., D. de l'U. Gren. (Fr.).

Vallette, Jean, L. ès L. Paris (Fr.).

Tomlinson, Mme., (Fr.).

Manson, J., M.A. Edin. (Spanish).

Cunningham, Kathleen, M.A.  
N.U.I., Ph.D. Bonn (German).

*Music*

Newman, S. T. M., B.A. Ox.  
F.R.C.O. Lectr.

*Naval Architecture*

Abell, Sir Westcott S., K.B.E.,  
R.C.N.C. (retd.), M.Eng. Prof.

Scott, J. L. Lectr.

*Philosophy, Mental and Moral*

Reid, L. A., M.A., D.Litt. Edin.,  
Ph.D. Wales Prof.

Emmet, Dorothy M., M.A. Ox.  
Lectr.

*Physics*

Curtis, W. E., A.R.C.Sc., D.Sc.  
Lond.

Prof. and Director of  
Dept.

Todd, G. W., M.A. Camb., D.Sc.  
Birm., M.Sc. Prof. (Expl. P.).

Bullerwell, J. W., M.Sc. Lectr.

Richardson, E. G., B.A., Ph.D.,  
D.Sc. Lond. Lectr.

Wood, J. F., M.Sc. Lectr.

Darbyshire, O., M.Sc. Manc. „

*Religious Knowledge*

..... Lectr.

*Secretarial Practice*

Arkless, J. C., A.C.I.S. Lectr.

*Veterinary Science*

Stewart, W. L., M.R.C.V.S.  
Adviser.

*Zoology, v. also Agric.*

Hobson, A. D., M.A. Camb. Prof.

Bartlett, Mrs. Olga M., M.Sc.,  
M.Ed. Lectr.

# DURHAM: ARMSTRONG COLLEGE, NEWCASTLE 79

Cooper, J. Omer, M.A. Camb., M.Sc.	Lectr.	University Extension Extra-Mural Organiser and Jt.
Steel, A., M.Sc. Wales	Lectr.	Sec., Board of Extra-Mural
Storror, B., M.Sc.		Studies: H. E. R. Highton, M A. Glas.
Naturalist at Marine Lab.		
Bull, H. O., B.Sc., Ph.D. Lond.		English
Biologist at Marine Lab.		Lochhead, J., M.A. Glas.
Cowan, Mrs. D.		[Tutor-Organiser for Cumber-
Librarian at Marine Lab.		land and Westmorland.

## GENERAL INFORMATION

**LIBRARY**, 104,935 vols. (including the Medical libraries). Access to Lit. and Philos. Society's 100,000 vols., and to library of N. of England Inst. M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. Special libraries: English Bibles from 1535; Heslop, English dictionaries (277 vols.); Kieper, fifteenth to eighteenth century printed books, mostly classics (600 vols.); Merz, philosophical and mathematical (2804 vols.); Spence Watson, early English texts (536 vols.); Oriental, with special reference to India (2052 vols.); Gilchrist Agricultural (512 vols.); Gertrude Bell, Oriental (1939 vols.). **LABORATORIES** with special facilities for research in Engin. and Hydr.; special branches of Chem., Physics, and Agric.; Marine Biol. (Dove Marine Lab, Cullercoats. See App. XXIV. A. III.).

The Agric. Dept. undertakes the scientific control of Cockle Park, the Northumberland County Experiment Station, and has the use of other County and Crown estates for teaching, research, and demonstration purposes.

**ADMISSION.** See Appendix XXII.

**DEGREE COURSES.** Complete Courses for the Arts, Science, Law, and Commerce degrees and the Educn. Diploma of the Univ. The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. trains for both Elementary and Secondary School Work.

**DIPLOMAS.** For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Engineering or Naval Architecture an entrance examn. must be passed unless the student has passed some equivalent examn. (School Certificate standard in Extra Maths., Mechanics, Physics, and Chemistry); (iii.) in Fine Art an entrance examn. in English, and either French, or German, or Spanish is prescribed.

*College Diplomas* in Architecture (5 yrs.), Engineering (3 yrs.), Naval Architecture (3 yrs.), Mining (2 yrs.), Agric. (3 yrs. of 2 terms each), Fine Art (4 yrs.), Commerce (2 yrs.). *College Certificate* in Fine Art (4 yrs.). *College Certificate* in Agric. (2 tms.). Short courses are provided in Agric. (10 weeks).

A *Tutorial System* is established in all Faculties. Each student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests.

**FELLOWSHIPS, ETC.** £300 for 1 yr. (Earl Grey Memorial), open to a graduate in Sci. or Commerce; £150 for 1 yr. (Sir W. H. Stephenson Studentship), open to a grad. in the Fac. of Arts; £100 for 1 yr. (William Black Noble Memorial Studentship), open to a grad. in the Facs. of Comm., Arts, or Sci.; £100 for 1 yr. (Pemberton Studentship), open to a grad. in Sci.; £75 (3) studentships for 1 yr., open to grads. of any Fac.; £100-£150 (5) for 1 yr., open to grads. of any Fac.; £75 for 1 yr. (Philip Buckle Memorial Scholarship), open to grads. of

the Dept. of Agric. (including Agric. Zool.). For particulars of the Johnston Chemical Studentship and Prize, see App. XXIII. r8. The total amount available for post-graduate fellowships, etc., is about £1900 p.a., including a Senior Research Fellowship under the Research Fund (*see below*) of £300 p.a. available for 1 yr.

**RESEARCH FUND** established in 1923 with endowment of £12,000. Administered by a Standing Committee, which allocates the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research.

Annual Tuition fee in courses for degree of B.A. or B.Com., £30; B.Sc., £35 (in Engin., etc., £40); and for Diploma in Agric., £22: 10s.; Cert. in Agric., £18; Diploma in Teaching, £35; in Engin., etc., £40; in Fine Arts, £16; in Commerce, £5: 10s. per subject (in evening classes, £3 a subject). Exams. for B.A. or B.Sc., £7; Students' Societies (men and women), £2: 2s. Registration Annual (Degree students and some others), £2.

**RESIDENCE.** New Hall, for 79 men, fees £65 p.a.; Easton Hall, for women, fees £64 p.a.

**UNIVERSITY EXTENSION.** Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in various centres (most of the tutors are regular members of college staff).

**PUBLICATIONS.** *Calendar* (Sept.), 2s. 6d.; *Principal's Annual Report* (Oct.); *The Northerner* (Students'), 5 issues annually.

## THE YEAR 1931-32

**BENEFACTIONS.** Anon., £50,000, towards erection of a Hall of Residence for Men; the Rockefeller Foundation, £842, for apparatus for research in Physics; Messrs. A. Reyrolle & Co., Ltd., £250, for Elect. Engin. Equipment.

**NEW BUILDINGS.** New Hall, the hall of residence for men students, opened at beginning of Mich. Term, 1932.

**RESIGNATIONS.** A. Meek (Zool.), on retirement; H. V. A. Briscoe (Chem.), on appt. as Prof. of Inorg. Chem., Univ. of London (Imperial Coll. of Sci. and Tech.); J. W. Harvey (Philos.), on appt. as Prof. of Philos., Univ. of Leeds; R. Bullock (Fine Art), on retirement; W. Atkinson (Spanish), on appt. as Prof. of Spanish, Univ. of Glasgow; J. Hall (Engin.), on retirement; M. V. C. Jeffreys (Educn.), on appt. as Lectr., Institute of Education, London; W. C. Kneale (Philos.), on appt. as Lectr. in Philos., Exeter Coll., Oxford; Miss M. Tyrrell (Geog.); A. C. Edwards (Classics).

**EXTENSION WORK.** Public lectures in the College included: two French lectures under the auspices of the Alliance Française; the Earl Grey Memorial Lecture on "Forecast and Fact as seen by an Astronomer," by R. A. Sampson, M.A., D.Sc., F.R.S.; the W. H. Charlton Lecture on "Imitation, Illustration, and Representation," by the Rt. Hon. Lord Northbourne, M.A.; and a series of Popular Evening Lectures throughout the winter by various members of the Staff. Extra-mural Classes: Tutorial Classes 22, students 372; Extension Courses 28, students 486; total: classes 50, students 856.

**STUDENTS.** Full-time, 761, including 134 graduates. Part-time, 585, including 31 graduates.

**DEGREES OBTAINED.** M.A., 17; B.A., 51; D.Sc. (Pure Sci.), 1; Ph.D. (Pure Sci.), 4; M.Sc. (Pure Sci.), 12; B.Sc. (Pure Sci.), 68; D.Sc. (Appld. Sci.), 1; Ph.D. (Appld. Sci.), 2; M.Sc. (Appld. Sci.), 3; B.Sc. (Appld. Sci.), 45; M.Com., 1; B.Com., 9; M.Ed., 4.

# UNIVERSITY OF LEEDS

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., LL.D.

PRO-CHANCELLOR—Col. C. H. TETLEY, D.S.O., M.A.

VICE-CHANCELLOR—Sir JAMES B. BAILLIE, O.B.E., M.A. Camb., D.Phil. Edin., LL.D., J.P.

PRO-VICE-CHANCELLOR—Prof. JOHN STRONG, C.B.E., M.A., LL.D.

TREASURER—Hon. R. E. BECKETT.

DEANS OF FACULTIES AND TUTOR OF WOMEN STUDENTS. See under "General Information"—Faculties.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com.

CLERK TO THE SENATE—F. T. BAINES, B.A.

LIBRARIAN—R. OFFOR, Ph.D. Lond.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture v. infra*

#### *Anatomy*

Jamieson, J. Kay, M.B., G.M. Edin. (Dean of Med. Fac.)

Cave, A. J. E., M.B., Ch.B. Manc.

Scholefield, J., M.B., Ch.B., M.R.C.S., L.R.C.P. Demr.

Morton, W. C., C.B.E., M.A., M.D. Edin. Hon. Demr.

Broomhead, W. Hon. Demr.

Tasker, R. B., M.C., L.D.S., Hon. Demr. (Dental Students)

### *Bio-Chemistry, v. Physiol.*

#### *Botany*

Priestley, J. H., D.S.O., B.Sc. Lond., F.L.S. Prof.

Pearsall, W. H., D.Sc. Manc., F.L.S. Reader.

Walker, N. (Morphol.) Lectr.

Scott, Lorna I., M.Sc. Lond. Lectr.

Asst. Lectrs. and Demrs. :

Steward, F. C., Ph.D.

Sledge, W. A., Ph.D.

..... (Physiol.) Demr.

Grist, Mrs., B.Sc. Lond.

Malins, Marjorie E., B.Sc. (R.). Hon. Demr.

*Chemistry, v. also Technology—*  
*Colour Chemistry.*

Whytlaw-Gray, R. W., O.B.E., Ph.D. Lond., F.I.C., F.R.S.

Usher, F. L., D.Sc. Lond. (Colloid C.) Reader.

Lowson, W., B.Sc. Lond. and Leeds, F.I.C. (Analyt. C.)

Gregory, J. C., B.Sc. Lond., F.I.C. Lectr.

Hume, J., B.Sc. Edin., A.I.C. „ „ Asst. Lectrs. and Demrs. :

Clark, C. H. D., M.Sc. Lond., D.I.C.

Garrick, F. J., B.A. Ox.

Colvin, J., B.Sc., Ph.D. Liv. Demr.

Bradley, R. S., M.A. Camb. Demr.

Whitaker, H., M.Sc. (R.).

### *Chemistry, Organic*

Challenger, F., D.Sc. Birm., B.Sc. Lond., Ph.D. Gottingen Prof.

(R.) = Research Asst.

Baker, J. W., D.Sc. Lond. Lectr.  
 Burton, H., Ph.D., D.Sc. Lond.,  
 M Sc. Sheff. Lectr.  
 Wightman, W. A., M.A. Ox.

Asst. Lectr. & Demr.  
 Goss, F. R., M.Sc., Ph.D. Lond.  
 Demr.

Shoppee, C. W., Ph.D., D.Sc.  
 Lond. Demr.

Rothstein, E., Ph.D. Lond.,  
 A R.C.S. (R.).

### *Chemistry, Physical*

Dawson, H. M., B.Sc. Lond., Ph.D.  
 Gies, D. Sc. Prof.

Smith, G. F., Ph.D. Wales  
 Asst. Lectr.

Belton, J. W., Ph.D. Liv. Demr.  
 Spence, R., Ph.D. Durh. Demr.

### *Classics* [Prof. (Greek).

Edwards, W. M., M.C., M.A. Ox.  
 Noble, P. S., M.A. Camb. and  
 Aberd. Prof. (Latin).

..... (Archæol.) Lectr.  
 Bibby, E. E., M.A. Leeds and  
 Camb. (Lat.) Lectr.

Asst. Lectrs. .  
 Binyon, D. E. F., B.A. Ox. (Lat.).  
 Langton, M. C., B.A., Camb. (Gk.).

Symonds, Rev. H. E., M.A. Ox.  
 (Lat.) Pt.-time Lectr.

### *Commerce, v. Economics*

### *Dentistry, v. infra*

### *Economics*

Jones, J. Harry, M.A. Wales (Dean  
 of Arts Fac.) Prof.

Richardson, J. H., M.A. Camb.,  
 Ph.D. Lond.

Montague Burton Prof.  
 (Indust. Relations).

Shimmin, A. N., M.A. Manc. Lectr.  
 Dickinson, H. D., M.A. Camb. (Ec.  
 Hist.) Lectr.

Dower, R. S., M.A. Camb. (Social  
 Organization) Lectr.

McCarmick, A., A.C.A. (Acc'ty.)  
 Lectr.

Cartwright, Mrs., B.Sc. Lond. (R.).  
 Wilson, Gwendolen (Soc. Work)  
 Tutor.

### *Education*

Strong, J., C.B.E., M.A. Lond.,  
 LL.D. St. And. Prof.

Welpton, W. P., B.Sc. Lond.  
 Lectr. and M. of Method.

Monahan, A. J., M.A. (Hist. of E.)  
 Lectr.

Wynn-Jones, Ll., Ph.D. Leip.  
 (Expl. E.) Lectr.

Curtis, S. J., Ph.D. Lond.  
 Asst. M. of Method.

Blackburn, Elz. M., M.A.  
 Lectr. and M. of Method.

Robson, Winifred F., M.A. Liv.  
 Asst. M. of Method.

### *Asst. Lectrs. :*

Holgate, Jane, B.A.  
 Newcomb, Edith, M.A. Columbia.

Smith, C. A., B.A. Lond.  
 7 Pt.-time Assts.

### *Engineering, Civil and Mech.*

David, W. T., M.A., Sc.D. Camb.,  
 D. Sc. Wales, M.I.C.E.,  
 M.I.Mech.E. Prof.

Gilchrist, J., B.Sc. Edin. Lectr.  
 Asst. Lectrs. :

Richardson, S. G., M.Sc.  
 Davies, W., B.Sc. Wales, Ph.D.

Evans, R. H., M.Sc. Manc., Ph.D.  
 Brown, J. R., M.Sc.

Caton, E. E. Demr.  
 Jordan, J., B.Sc. Manc. Demr.

### *Engineering, Elec.* [Prof.

Wheatcroft, E. L. E., M.A. Camb.  
 French, W. E., M.I.E.E. Lectr.

Stuart, W. S., M.Eng. Liv.  
 Asst. Lectr. and Demr.

### *English Lang. and Lit.*

Wilson, F. P., D.Litt. B'ham.,  
 M.A. Ox. (Lit.) Prof.

Dickins, B., M.A. Camb.  
 (Lang.) Prof.

Childe, W. R., M.A. Ox. Lectr.

## Asst. Lectrs. :

Ross, A. S. C., B.A. Ox.  
 Stewart, J. I. M., B.A. Ox.  
 Wilson, R. M., M.A.

*French and Romance Philol.*

Barbier, P., M.A. Lond. Prof.  
 Gunnell, Doris, M.A., D. de l'U.  
 Paris Lectr.  
 Murray, Jessie, M.A. St. And.,  
 D. de l'U. Paris Lectr.  
 Inebnit, J. P., L. ès L. Neuchâtel  
 Lectr.  
 Benn, T. V., B.A., Ph.D.  
 Asst. Lectr.  
 Hainsworth, G., M.A. „ „

*Geography*

Williamson, A. V., M.A. Liv.  
 Lectr. and Hd. of Dept.  
 Asst. Lectrs. :  
 Griffiths, F. W. G., B.A. Camb.  
 Clark, K. G. T., B.A.  
 1 Student Asst.

*Geology*

Gilligan, A., B.Sc. Wales, D.Sc.,  
 F.G.S., M.I.M.E. (Dean of  
 Sci. Fac) Prof.  
 Versey, H. C., D.Sc. Lectr.  
 Hudson, R. G. S., D.Sc. Lond.,  
 F.G.S. Lectr.

*German Lang. and Lit.*

Gough, C. E., Ph.D. Basle Prof.  
 Asst. Lectrs. :  
 Caldwell, M. Constance, B.A.  
 Peacock, R., M.A.

*Hebrew*

Howells, Rev. G., B.A. Lond.,  
 B.D. St. And., B.Litt. Ox.,  
 Ph.D. Tub. Temp. Lectr.

*Histology, v. Physiology**History*

Thompson, A. Hamilton, M.A.  
 Camb., D.Litt. Durh., F.B.A.,  
 F.S.A., Hon. A.R.I.B.A. Prof.  
 Turberville, A. S., M.C., M.A.,  
 B.Litt. Ox. (Mod. H.) Prof.

Dainton, A. H., M.A. Ox. Lectr.  
 Richardson, G. W., M.A. Lond.  
 (Anc. H.) Lectr.

*History, Eccles.*

Underwood, Rev. A. C., M.A.,  
 B.Litt. Ox., D.D. Lond. Lectr.

*Law*

Hughes, J. D. I., M.A., B.C.L. Ox.  
 Prof.  
 Lectrs. :  
 Hagen, G. L., M.A., B.C.L. Ox.  
 Burrill, H. R., LL.B.  
 Powell, R., M.A., B.C.L. Ox.

*Mathematics*

Milne, W. P., M.A. Camb., M.A.,  
 D.Sc. Aberd. Prof.  
 Brodetsky, S., M.A. Camb., Ph.D.  
 Leip. (Appd. M.) Prof.  
 Gabriel, R. M., M.A., Camb.  
 (Math. Analysis) Reader.

*Lectrs. :*

Gilham, C. W., M.A. Camb., B.Sc.  
 Lond.  
 Smeal, G., M.Sc. Melb. (Statis.  
 Meth).  
 Stoneley, R., Sc.D. Camb. (Appl.  
 M).  
 McVittie, G. C., Ph.D. Camb.  
 Asst. Lectr.

*Medicine and Surgery, v. infra**Metallurgy, v. Tech.**Mining*

Ritson, J. A. S., D.S.O., M.C., B.Sc.  
 Durh. (Dean of Tech. Fac.)  
 Prof.

*Lectrs. :*

Brown, T., M.Sc., M.I.M.E. (Mine  
 Surveying).  
 Williamson, J. N., B.Sc., Ph.D.  
 Edin. (M. and Ore Dressing).

*Music*

Allan, E. W., B.A. Camb., B.Mus.  
 Lond., A.R.C.M. Lectr.

*Philosophy*

Harvey, J. W., M.A. Ox. Prof.  
 Rainer, A. C. A., M.A. Edin.  
 Lectr.

*Physics*

Whiddington, R., M.A., D.Sc.

Camb., F.R.S. Cavendish Prof.

Stoner, E. C., B.A., Ph.D. Camb.

Reader.

Long, F. A., B.Sc. Lond. Lectr.

Ewles, J., M.A. Camb. Lectr.

Asst. Lectrs. and Demrs. :

Brindley, G. W., M.Sc. Manc.

Pollard, E. C., B.A. Camb.

Spiers, F. W., B.Sc. Birm. Demr.

*Physiology*

McSwiney, B. A., B.A., Sc.D.,

M.B., B.Ch. Dubl. Prof.

Huggett, A. St. G. J. McC., D.Sc.,

Ph.D., M.B., B.S. Lond.,

M.R.C.S., L.R.C.P. (Pharma-

col.) Reader.

Winfield, G., M.A. Camb. Lectr.

Brown, G. L., M.Sc., M.B., Ch.B.

Manc. Lectr.

Wormall, A., D.Sc., A.I.C. (Bio-

Chem.) Lectr.

Eastwood, C. G. Pt.-time Lectr.

Hopkins, S. J., Ph.D. Lond.

(Bio-Chem.) Demr.

Spurrell, W. R., M.Sc., M.S. Lond.,

F.R.C.S. Demr.

Dickinson, Mrs. H. D., M.A. Camb.,

M.R.C.S., L.R.C.P. (R.).

Harrison, J. S. (R.).

Killick, Miss E. M., B.Sc., M.B.,

Ch.B. (Temp. R.).

..... (R.).

Flint, E. R., M.B., Ch.B., F.R.C.S.

(Histology) (C.).

*Russian History and Music*

Frere, Rt. Rev. W. H., D.D.,

Litt.D. Hon. Lectr.

*Russian Lang. and Lit.*

..... Prof.

Kolni-Balozky, J.

Lectr. (Actg. Hd.).

*Spanish Lang. and Lit.*

..... Prof.

Penzol, P., L.D. Oviedo

Actg. Hd. and Lectr.

de Irizar, Augustin Asst. Lectr.

*Technology, v. infra**Zoology, v. also Agric.* [Prof.

Garstang, W., M.A., D.Sc. Ox.

Lloyd, Ll., D.Sc.

(Entom. &amp; Protozool.) Reader.

Henson, H., B.Sc. Birm.

Asst. Lectr. &amp; Demr.

King, Mrs. W. O. R., B.Sc.

Asst. Lectr. Pt.-time.

Thomas, J. A. Moy, B.A. Ox.

Demr.

Payne, Mrs., B.Sc. Liv.

Hon. Demr.

*Agriculture*

..... Prof.

..... Lectr.

Robertson, G. C. A., M.C., M.A.,

B.Sc. Aberd. Lectr.

Asst. Lectrs. and Demrs. :

Bywater, T. L., B.Sc. Wales

Moore, H. I., B.Sc., Dip.Ag. Camb.

District Lectrs. : [Leeds.

Thompson, H., B.Sc. Manc. and

Strachan, J., M.A., B.Sc. Aberd.,

N.D.A.

Robb, J., B.Sc. Aberd.

Findlay, D. H., B.Sc. Glas.,

N.D.A., N.D.D.

Gibson, W. S., B.Sc.

Gelling, W. E., B.Sc., N.D.A.

Bates, A. B., B.Sc., N.D.A.

Ballardie, W. W., B.Sc. Durh.

N.D.D.

*Agric. Botany*

Millard, W. A., D.Sc. Bris. Lectr.

Burr, S., M.Sc. Lectr.

Asst. Lectrs. :

Jones, A. Powell, M.Sc. Wales.

Chalmers, C. H., B.Sc. Edin.,

N.D.A.

Turner, Dorothy M., B.Sc. Demr.

..... Demr.

(R.) = Research Asst.

(C.) = Clinical Lectr.

*Agric. Chemistry*

Comber, N. M., D.Sc. Lond.,  
A.R.C.S., F.I.C.

Actg. Hd. and Prof.

Jones, H. Trefor, M.Sc. Wales,  
A.I.C. Lectr.

Asst. Lectrs.

Willcox, J. S., B.Sc. Lond., A.I.C.  
Marshall, C. E., M.Sc. Manc.,  
Ph.D. Lond.

*Agric. Economics*

Ruston, A. G., B.A., B.Sc. Lond.,  
D.Sc. Lectr.

Asst. Lectr.

Nichols, H. E., B.Sc. Res. Asst.

Turnbull, A. B., B.Sc.

(Temp.) Res. Asst.

Miller, T. E., N.D.A. Stud. Asst.  
2 Costings Clerks.

*Agric. Engineering*

Mackay, I. M., B.Sc. Edin.  
Asst. Lectr.

*Agric. Zoology*

Taylor, T. H., M.A., R.U.I. Lectr.

Johnson, L. R., B.Sc. Asst. Lectr.

*Dairy Husbandry*

McGregor, J., B.Sc. Glas., N.D.A.,  
N.D.D. Lectr.

Asst. Lectrs. :

.....

.....

*Horticulture*

Granger, J., B.Sc., Ph.D. (Hort.  
Botany) Asst. Lectr.

*Poultry Husbandry*

Goode, C. W., N.D.A., N.D.D.  
Lectr. and Demr.

Asst. Lectrs. :

Millar, Ishobel McL., N.D.D.

.....

*Veterinary Hygiene*

Bowes, H. G., F.R.C.V.S. Lectr.  
10 Instrs. and Asst. Instrs. in

Dairying, Hortic., Poultry,  
Farriery, and Bee-keeping.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

Rowling, S. T., M.D. Lectr.

*Bacteriology*, v. Pathol*Cancer*, v. Pathol.*Forensic Med.*

Telling, W. H. Maxwell, M.D., B.S.  
Lond., F.R.C.P. Prof.

*Infectious Diseases*

Anderson, J. S., M.A., M.D.,  
D.P.H. Aber. Lectr.

*Materna Med.*, v. Pharmacy*Medicine and Clin. Med.*

Watson, G. W., M.D. Lond.,  
F.R.C.P. (C.) Prof.

..... (Clin. Med.) Prof.

Vining, C. W., M.D., Lond.,  
F.R.C.P., D.P.H.

(Diseases of Children). Prof.

Ingram, J. T., M.D. Lond.,  
M.R.C.P.

Lectr. (Skin Dis.) (C.).

Tattersall, N., M.D. Lond.

Lectr. (Tuberculosis).

MacAdam, W., M.A., B.Sc., M.D.,  
Ch.B. Glas., F.R.C.P.

Lectr. (Dietetics and

Metab. Med.) (C.).

Garland, H. G., M.D., M.R.C.P.

Med. Tutor and Registrar.

..... Hon. Demr.

*Mental Diseases*

Bolton, J. S., M.D., D.Sc. Lond.,  
F.R.C.P. Prof.

*Obstetrics and Gynæcology*

Gough, W., B.Sc., M.B., B.S.  
Lond., F.R.C.S., F.C.O.G.

(Gynæc.) (C.) Prof.

Claye, A. M., M.D., F.R.C.S.,  
L.R.C.P. (Obst.) (C.) Prof.

Currie, D. W., Ch.M., F.R.C.S.

(Obst.) Tutor.

(C.) = Clinical Lectr.



- Young, W. McG., M.A., M.D. Glas.  
(C.).
- Adamson, Mrs. R., M.D., B.S.  
Lond., F.C.O.G.  
Lectr. (Midw.) (C.).
- Ophthalmology*
- Lee, H., B.A., M.B., B.Ch. Camb.,  
F.R.C.S. Lectr. (C.).
- Lodge, S. D., F.R.C.S. (C.).
- Otology*
- Munby, W. M., Ch M. Edin.,  
F.R.C.S. Lectr. (C.).
- Bain, E. W., M.B., B.S. Lond.,  
F.R.C.S. (C.).
- Pathology and Bacteriology*
- Stewart, M. J., M.B., Ch.B. Glas,  
F.R.C.P.  
(Path.) (C.) Prof. and  
Hd. of Dept.
- McLeod, J. W., O.B.E., M.B.,  
Ch B. Glas.  
(Bact.) Brotherton Prof.
- Passey, R. D., M.C., M.D., B.S.,  
D.P.H. Lond.
- (Exper. Path.) Prof. and  
Dir. Cancer Research.
- Fowweather, F. S., M.Sc., M.D.,  
D.P.H. Liv., F.I.C.  
(Clin. Chem. P.) Reader.
- Lecturers :
- Gordon, J., M.D., D.P.H. (Bact.).
- Polson, C. J., M.D. Birm. (Path).
- Carmichael, R., M.B., Ch.B. Edin.  
(Path.).
- Happold, F. C., Ph.D. Manc.  
(Path.).
- Sutherland, P. L., M.B., Ch.B.,  
D.Sc. Glas. (P. of Indust Dis.).
- Demrs. :
- Hickman, Miss E. M., M.Sc., M.D.
- Thomson, J. G., M.B., Ch.B.  
Aberd.
- Hoyle, L., M.B., Ch.B.
- Wheatley, Bertha, M.B., Ch.B.  
(Bact.) (Pt.-time).
- Cattley, R., M.B., C.M. Edin.,  
B Sc., D.P.H. Camb. (Path)  
Hon. Fellow.
- Burrow, J. le F. C., M.B., Ch.B.  
Edin., M.R.C.P. (Med. P.)  
Hon. Demr. (C.).
- Richardson, A., M.B., B.S. Lond.,  
F.R.C.S. (Surg. P.)  
Hon. Demr. (C.).
- Stewart, Clara, M.B., B.S. Lond.  
(Path.) Hon. Demr.
- Cancer Research :
- Orr, J. W., M.D., B.Sc., B.A.O.,  
D.P.H. Belf.  
Lectr. in Exp. Path. and  
Asst. Dir.
- Havard, R. E., B.A., B.M., B.Ch.  
Ox. Bio-Chemist.
- Bonser, Mrs. K. J., M.D. Manc.,  
M.R.C.S., L.R.C.P. Fellow.
- Kendal, L. P., M.Sc. Manc., Ph.D.  
Camb. Fellow.
- Berenblum, I., B.Sc., M.D. Fellow.  
..... Fellow.
- Hemsley, F. R. W. (R.).
- Leese, A., B.A. Camb. (R.) Temp.
- Pharmacology and Therapeutics*
- Veale, R. A., B.A. Ox., M.D., B.S.  
Lond., F.R.C.P. Prof. (C.).
- Moll, H. H., M.D. Rome, M.B.,  
Ch.B., M.R.C.P. Hon. Demr.
- Pharmacy and Materia Medica*
- Anning, J. J., L.M. Lectr.
- Public Health*, v. also Path.
- Jervis, J. J., M.D. Edin., D.P.H.  
Lond. Prof. of P.H. Admn.
- Underwood, E. A., M.A., B.Sc.,  
M.D. Glas., D.P.H.  
Hon. Demr.
- Radiology and Electro-Therapeutics*  
[Lectr.]
- Scargill, H. B., M.B., B.S. Lond.
- Cooper, G., B.A., B.Ch., B.A.O.,  
M.D. Belf. Lectr.
- Surgery*
- Dobson, J. F., M.S. Lond., F.R.C.S.  
Prof. (C.).

(C.)=Clinical Lectr.

(R.)=Research Asst.

Paine, A. B., M.B., Ch.B., M.R.C.S.,  
L.R.C.P. Surg. Tutor.  
Braithwaite, L. R., M.B., Ch.B.  
Manc. and Leeds, F.R.C.S.  
Dir. of Surg. Res. (C.).  
Daw, S. W., M.B., B.S. Lond.,  
F.R.C.S. (Orth. S.) Lectr. (C.).  
Pyrah, L. N., M.B., Ch.M., M.Sc.,  
F.R.C.S. Surg. Tutor.

### *Surgery, Clinical*

Collinson, H., C.B., C.M.G., D.S.O.,  
T.D., M.B., M.S. Lond.,  
F.R.C.S. Prof. (C.).  
Moir, P. J., M.C., M.B., Ch.B.  
Glas., F.R.C.S. (C.).  
Symons, H. W., M.B., Ch.B.,  
F.R.C.S. (C.).  
Chamberlain, D., M.B., Ch.M.,  
F.R.C.S. (C.).  
Broomhead, R., M.B., Ch.B.,  
F.R.C.S. Lectr. (C.).

### *Vaccination*

Greaves, F. W. M., M.D., D.P.H.  
Instr.

### *Venereal Diseases*

Bibby, J. P., M.B., Ch.B.,  
M.R.C.P. (C.).

### *Dentistry*

*Dental Anatomy and Physiology*  
Sykes, J. G., B.Ch.D. Lectr. (C.).

### *Dental Histology*

..... Hon. Demr. (C.).

*Dental Mechanics* [Lectr. (C.).  
Thorburn, W. S., M.Sc., L.D.S.  
Watt, G.V., L.D.S. Tutor (C.).

### *Dental Metallurgy*

Lowson, W., B.Sc. Lond. and  
Leeds, F.I.C. Lectr.

### *Dental Radiology*

Scargill, H. B., M.B., B.S. Lond.  
Lectr.

### *Dental Path. and Bact.*

Ravenscroft, H. J., L.D.S.

### *Dental Surgery*

Read, T. T., F.R.F.P.S. Glas.,  
L.R.C.S., L.R.C.P. Edin.,  
L.D.S. Glas.

(C.) Prof. & Warden.

Cocker, J. P., L.D.S. Lectr. (C.).

Hey, S. D., L.D.S. (Op. D. Surg.)

Lectr. (C.).

Marston, W., M.Sc., L.D.S. (C.).

Iles, G. D., L.D.S. (C.).

Crawford, J. K., L.D.S. (C.).

Ravenscroft, H. J., L.D.S. (C.).

Macrae, J. M., L.D.S. (C.).

Brenan, S. H., L.D.S. (C.).

Hollings, M. R., B.Ch.D. Demr.

Green, A. H., L.D.S.

(Prosth. D.) Demr

3 Hon. Clin. Tutors

2 Hon. Anæsthetists.

### *Orthodontia*

Wilkinson, G. L., M.R.C.S.,  
L.R.C.P., L.D.S. Lectr. (C.).

### *Technology*

v. also Agr., Engin., Mining

### *Coal, Gas, and Fuel Industries with Metallurgy*

Cobb, J. W., C.B.E., B.Sc. Leeds  
and Lond., F.I.C. Livesey Prof.

Hodsmann, H. J., M.B.E., M.Sc.,  
F.I.C. (Gas Chem.) Lectr.

Preece, A. (Met.) Asst. Lectr.

Roberts, A. L., Ph.D. (Refractory  
Materials) Asst. Lect. & (R.).

### *Research Chemists:*

Wood, J. W., M.Sc. Tech. Manc.,  
A.I.C.

Dent, F. J., Ph.D.

Blackburn, W. H., Ph.D.

Key, A., Ph.D.

Williams, N. H., M.Sc.

Parrish, E., M.Sc. Manc.

Etheridge, W., B.Sc.

Spivey, E., Ph.D.

Eastwood, A. H., Ph.D.

(R.) (Temp.).

(C.) = Clinical Lectr.

(R.) = Research Asst.

*Colour Chemistry and Dyeing*

Rowe, F. M., D.Sc., F.I.C. Prof.  
 Forster, R. B., Ph.D. Berl., D.Sc.,  
 N.U.I., F.I.C., A.R.C.S.I.  
 (Colour Chem.) Lectr.  
 King, P. E., A.I.C. (Dyeing) Lectr.  
 Cross, E. J., B.Sc. Lond.

Asst. Lectr.

Peters, A.T., Ph D. Manc. (R.).  
 Giles, G. H., B.Sc. (Dyeing) (R.).

*Leather Industries*

McCandlish, D., M.Sc. Prof.  
 Atkin, W. R., M.Sc. Lectr.  
 Thompson, F. C., M.Sc. Lectr.  
 ..... (R.).

Procter International Research  
 Laboratory:

..... Hon. Director.  
 Thompson, F. C., M.Sc. (R.).

*Textile Industries*

Barker, A. F., M.Sc. Prof.  
 Lectrs.:  
 .....  
 Hollis, T. (Yarn Manuf.).

Yewdall, A (Cloth Struct., etc.).  
 Pickles, F. (T. Testing).  
 Speakman, J. B., D.Sc. Manc. (T.  
 Chem.).  
 Astbury, W. T., B.A. Camb. (T.  
 Phys.).

Asst. Lectrs.:

Farley, W. A. (T. Design).  
 Priestley, G. (Cloth Anal).  
 Woods, H. J., B.A. Ox. (R).  
 Chamberlain, N. H., Ph.D. (R).  
 Barker, S. G., Ph.D. Berlin (Dir.,  
 Res. Students at Torridon).  
 Denham, W. S., D.Sc., F.I.C. (Dir.,  
 Silk Res. Students).

*University Extension*

Staff Tutors: Stewart, D., M.A.,  
 N.U.I.; Walker, N.; Wil-  
 liams, J. R., B.A.; Johnson,  
 L. G., B.A. Sheff.; McCul-  
 loch, F. J., B.A.; Roberts,  
 D. W., B.Sc. Lond.

(R.) = Research Asst.

## AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A.)  
 and RAWDON COLLEGE (Principal—A. C. Underwood, D.D.). Students  
 are exempt from attendance at the Univ. in the first yr. for B.A.

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.).  
 Similar exemption for B.A., B.Sc. (including Engin.), and M.B. and Ch.B.

DIOCESAN TRAINING COLLEGE, YORK. Similar exemption for B.A., B.Sc.

PRINTING DEPARTMENT OF THE LEEDS CENTRAL TECHNICAL SCHOOL.  
 Classes recognized as part of course for the B.Com.

## GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College,  
 established as a College of Science in 1874, were united in 1884. The College  
 formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was estab-  
 lished by Royal Charter in the city of Leeds.

LIBRARY, including that of the Medical School and of the Dept. of Agri-  
 culture, about 132,236 books, 45,257 pamphlets. Besides the General Library,  
 there are separate rooms devoted to Science, Agriculture, English, French,  
 German, Classics, Economics, Philosophy, History, Law and Music. Special  
 collections: (a) MSS. illustrating developments in textile industry about 1800;

(b) 2100 vols in French on Great Britain, printed before 1801; (c) 264 vols. contemporary records (Journal Officiel, newspapers of Metz, Strasbourg, and Nancy, etc.) of political events in France during 1870 and 1871; (d) an Icelandic and Old Norse collection of 7628 vols.

MUSEUMS: Anatomy, Dyeing, Materia Med., Path., Textile, Zool. LABORATORIES: Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Cancer, Physics, Physiol., Textile, Zool. OBSERVATORY, 18½" reflector telescope. FARM, 348 acres, including Poultry School. HOSPITALS available for Clinics: Infirmary (627 beds) and several others; Asylum (2400 inmates).

FACULTIES. Arts (including Economics and Law), Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry). *Deans*: Profs. Jones (Arts), Gilligan (Science), Ritson (Technology), Jamieson (Medicine). *Tutor of Women Students*: Dora M. Hibgame, M.A. Ox.

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

ADMISSION. See Appendix XXII.

DEGREES. Obtainable after a 3 yrs.' course starting from matricn.—B.A., B.Sc. (Honours degree usually 4 yrs.), B.Com. (which may be taken with an Applied Science as one of the principal subjects): 3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Coll.; LL.B. (3 yrs.); after 5½ to 6 yrs., M.B., Ch.B., B.Ch.D.

ADMISSION TO ADVANCED STANDING. See Appendix XXII.

*Mining* students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Hons. students of Mod. Langs. (French, German, Russian, Spanish) normally spend 3rd term of 2nd year at some approved foreign Univ.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' exams. as well as for the Univ. degrees.

HIGHER DEGREES. M.A., LL.M., M.Com., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr.) after the bachelorship. Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXVI.) may obtain the M.A., Ph.D. (v. p. 14), or M.Sc. by 2 yrs. of research. M.A., Ph.D. or M.Sc. of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS. In Education (grads.) or Ed. Admn., 1 or 2 yrs. In Social Organization and Public Service and in Public Administration, 2 yrs. In Engn., Fuel and Metall., Dyeing, Textiles, Leather, Agric., 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for

graduates, 1 yr.; for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 12 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. In Dent. Surg., 4 yrs., including 2 in Univ. In Commerce, 1 yr. (post-grad.).

EVENING COURSES for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

FEES. Matricn., £2. Registration, £2. Composition fees for tuition (including Union): Arts, £34 a session; Law, £14:11s.; Science, £42; Technology, £46; Agric. (other than degree students, who pay the Technol. fee in the 2nd and 3rd yrs.), £31. Course for Dipl. in Educn., £35 p.a.; Dipl. in Social Organization, £27 p.a. Medicine: complete course for M.B., including hosp. practice and maternity hostel residence, £299. Dentistry (including hosp. practice and pupilage): Dipl., £247; Degree, £280. Research fee, £18 a session. Examns.: Arts, Science, etc., £6; Medicine (including graduation), £19; Dentistry, B.Ch.D., £16; L.D.S., £16. Graduation fee, £7.

POST-GRADUATE SCHOLARSHIPS, ETC. Fellowships and scholarships for research in Gas and Col. Chem. Textiles, *see* App. XXIII. Also, for graduates of the Univ., £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £100 for research in Chem. or Pharm.; £70 Scholp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £25, Forensic Med. and Hygiene.

RESIDENCE. One hostel for 140 men and 4 for women. Fees, men £64, women £54 to £63 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

APPOINTMENTS BOARD. Secretary: W. R. Grist, B.Sc. Lond.

OVERSEAS STUDENTS' COMMITTEE.

AN OLD STUDENTS' ASSOCN. was formed in 1923.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educn. Asscn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

Summer Schools are arranged from time to time.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s.; Annual Reports of the Univ. and of Tech. Depts.; List of Researches, etc.; *Gryphon*, 3s. annually (students' magazine); *Union Handbook*; Prospectuses of various Depts.

## THE YEAR 1931-32

BENEFACTIONS. Appeal Fund (Sept. 1932), £424,425. Legacies of £20,000 from Mrs. Emily Fawcett for Chair of Theol.; of £1000 from Mr. Darcy Wilson; and of £1000 from Mr. F. W. Vause for "John Gilbert Vause Memorial Schp." Gifts of £300 a yr. for 7 yrs. from the late Dr. Wm. Briggs to augment existing funds for students; £9000 from Dr. C. F. Tetley for sports pavilion; £100 anon. for research in concrete; £100 from Sir Philip Reckitt for agric. research;

£40 from Federation of Curriers; from a national society (anon.) a piece of North Italian sculpture; painting by the late Mr. E. T. Jones presented by his family; and many valuable gifts to the Library and to various Depts.

**NEW BUILDINGS AND EQUIPMENT.** Pathological Institute, Chemistry building, sports pavilion, and workshop for Dyeing Dept. in progress. Plans of new Brotherton Library approved.

**NEW POSTS.** Chair in Philos. and Hist. of Religion established; addl. Clin. Lectureship and Asst. in Pathol. and Cancer Research.

**CHANGES IN REGULATIONS, ETC.** Regulations adopted for Blanche Leigh Schp. in Music; modification of Regns. for Clothworkers' Schps. and Fellowships; and minor alterations in various regns.

**UNIVERSITY EXTENSION COURSES** at 16 centres; 62 Tutorial Classes; Tutorial Class Summer School at Saltburn; course of 8 Public Lectures on "The Formation of the Gospel Tradition"; 6 Advanced Science Lectures; 4 lectures on "Science in Everyday Life"; 2 lectures on "Some Aspects of French Art" and 2 on "Mozart"; 6 single lectures on various topics; 10 Midday Music Recitals. 755 Lectures given in County by Agricultural Dept. in addition to 9 organized courses in Agric.; 8 in Hortic.; 2 in Dairying; 5 in Bee-keeping; 3 classes in Dressmaking; 3 in Cookery and 33 ten days' courses in Butter-making and Cheese-making; 83 Popular Lectures given by members of staff at various centres in the Univ. area.

**OTHER DEVELOPMENTS.** Visit by H.R.H. Prince George on Sept. 27; modification of arrangements for clinical teaching in Gynæcol.; refresher course for Textile Teachers.

**RESIGNATIONS AND DEATH.** Prof. C. M. Gillespie (Philos.); Prof. R. S. Seton (Agric.); Prof. F. W. Burich (Forensic Med.), and Mrs. Moorman (Warden, Oxley Hall), retired; Mr. A. D. Hargreaves (Law), on appt. as Reader in Law at Birmingham Univ.; Dr. R. G. Inkster, on appt. as Prof. of Anat. at Manitoba Univ.; Dr. J. S. Young (Cancer Res.), on election to Chair of Pathol. at Queen's Univ., Belfast; Mr. D. G. O. Ayerst (Univ. Exten.), on appt. to staff of *Manchester Guardian*; and various others. Dr. J. B. Allan (Hebrew) died.

**HONORARY DEGREES.** *LL.D.*—Sir James Peace Hinchliffe, Miss Ellen Mary Musson; *Litt.D.*—Prof. Herbert Read; *Ph.D.*—Mr. Osbert John Radclyffe Howarth.

**STUDENTS.** Full-time: total, 1520, including 218 graduates. Part-time, 318, including 40 graduates.

**DEGREES.** B.A., 110; B.Com., 7; LL.B., 21; M.A., 23; M.Ed., 5; M.Com., 1; B.Sc., 102; M.Sc., 6; Ph.D., 16; D.Sc., 1; M.B., Ch.B., 26; M.D., 3; Ch.M., 1.

# UNIVERSITY OF LIVERPOOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. the EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—VISCOUNT LEVERHULME, D.L., M.A. Camb.;  
C. SYDNEY JONES, M.A.

VICE-CHANCELLOR—H. J. W. HETHERINGTON, M.A., LL.D.

TREASURER—R. H. ARMSTRONG.

DEANS OF FACULTIES. See under "General Information"—Faculties.

CHAIRMAN OF CONVOCATION—J. A. WOODS, M.D.S., L.D.S.

REGISTRAR—EDWARD CAREY, LL.B.

ASSISTANT REGISTRAR—S. DUMBELL, M.A.

LIBRARIAN—Associate Prof. W. GARMON JONES, M.A.

## PROFESSORS, LECTURERS, ETC.

*Anatomy* [Derby Prof.  
Wood, W. H., B.Sc., M.D. Manc.

Lectrs. :

Nuttall, H. C. W., F.R.C.S.,  
D.P.H. (Appl. Surg. A.).

Capon, N. B., M.D., F.R.C.P.  
(Appl. Med. A.).

Jones, Tudor J., M.B., Ch.B.  
(Embryol.).

Diggle, W. S., M.B., Ch B Demr.

*Archæology*, v. also Palæog. and  
Associated Institutions

Droop, J. P., M.A. Camb. (Classi-  
cal A.) C. W. Jones Prof.

Peet, T. E., M.A. Ox. (Egyptology)  
Brunner Prof.

Garstang, J., M.A., D.Sc., B.Litt.  
Ox., LL.D., F.S.A. (Methods  
and Practice of A.)

Rankin Prof.

..... (Mediæval A.) Reader.

Newberry, P. E., M.A. (Egyptian  
Art) Reader.

*Architecture*, v. also Civ. Design,  
Engin.

Reilly, C. H., O.B.E., M.A. Camb.,  
F.R.I.B.A. Roscoe Prof.

Budden, L. B., M.A., F.R.I.B.A.  
Assoc. Prof.

Scott, Sir Giles G., LL.D., R.A.,  
F.R.I.B.A. (Eccl. Archit.)  
Reader.

Marshall, J. E., B.Arch. Sr. Lectr.  
Cole, E. R. F., B.Arch., F.R.I.B.A.  
Lectr.

Miller, B. A., B.Arch. "

Dougill, W., M.A., B.Arch. "

Velarde, F. X., B.Arch. "

Nunn, J. P., B.A. "

Allen, J. S., B.Arch. "

Todd, A. C., Dipl. Arch. "

Thearle, H., Dipl. Arch. "

Brooke, D., M.A., B.Arch. "

Ferriby, E. A., B.Arch. "

Penn, W. C., R.O.I. (Drawing  
from the Life) Instr.

Smith, H. Tyson  
Hon. Instr. in Craftsmanship.

### *Art of the Theatre*

Dean, Basil Shute Lectr.

### *Astronomy*

..... Reader.

### *Bacteriology*, v. Med.

*Bio-Chemistry* [Johnston Prof.  
Channon, H. J., B.A., D.Sc. Lond.  
Coope, R., B.Sc., M.D., M.R.C.P.  
(Clin. Chem.) Lectr.

Asst. Lectrs. :  
Loach, J. V., Ph.D., B.Sc., Birm.  
Smith, J. A. B., M.Sc. Lond., Ph.D.  
Birm.

Devine, J., B.Sc.  
Johnston Colonial Fellow.

*Botany*  
Thompson, J. McLean, M.A., D.Sc.  
Glas., F.L.S. H. Gaskell Prof.  
Knight, Margery, D.Sc., F.L.S.  
Sr. Lectr.

Demrs. and Lectrs. :  
Stirling, J., B.Sc. St. And.  
Mathias, W. T., M.Sc. Wales.  
Horton, W., M.Sc.  
Hon. Lectr. in Plant Path.

*Chemistry*, v. also Bio-C.  
Baly, E. C. C., C.B.E., M.Sc.,  
F.R.S. (Inorg. C.) Grant Prof.  
Heilbron, I. M., Ph.D. Leip., D.Sc.  
Glas., F.R.S., F.I.C.

H. Harrison Prof. (Org. C.).  
Lewis, W. C. McC., M.A. Belf.,  
D.Sc., F.R.S., F.Inst.P.  
(Physical C.) Brunner Prof.  
Hilditch, T. P., D.Sc.  
Campbell-Brown Prof.  
(Industrial Chem.—  
Fats, Waxes and Oils).

Senr. Lectrs. :  
Kay, F. W., M.Sc. Manc., Ph.D.  
Berl. (Applied Organic C.).  
Guthrie, F. C., M.A. Camb., F.I.C.  
(Analytical C.).

Griffith, R. O., D.Sc. (Phys.).  
Lectrs. and Demrs. :  
Edwards, D. M., B.Sc. (Inorg.).  
Shutt, W. J., M.Sc. (Phys.).  
M'Keown, A., D.Sc. (Phys.).  
Doran, W., M.Sc. (Organ.).  
Keffler, L. J. P., D.Sc. (Inorg.).  
Nance, J. T., M.A. Ox. (Inorg.).  
Occleshaw, V. J., M.Sc. (Inorg.).  
Morton, R. A., Ph.D., D.Sc. (In-  
org. and Spectrosc.).

McGookin, A., Ph.D., B.Sc. (Org.).  
Rogerson, H., M.Sc. Vict., F.I.C.  
(Inorg.) Demr.  
Collin, G., B.Sc., Ph.D. (Indust.)  
Demr.

*Chemistry, Pub. Health*  
Roberts, W. H., M.Sc., F.I.C.  
Assoc. Prof.  
Jones, E. Gabriel, M.Sc., F.I.C.  
Lectr.

Smith, F. J., B.Sc., F.I.C. Lectr.  
*Civic Design*  
Abercrombie, L. P., M.A.,  
F.R.I.B.A. Lever Prof.

Special Lectrs. :  
Kelly, S. A., F.S.I. (Civic Engin.).  
Mattocks, R. H. (Landscape  
Design).

Clarke, J. J., M.A. (Law of Housing  
and Town Planning).  
Dougill, W., M.A., B.Arch.,  
A.R.I.B.A. Research Fellow.  
Beaufoy, S. L. G., A.R.I.B.A.  
Ward, H. M.

*Classics*  
Campbell, A. Y., M.A. Camb.  
(Greek) Gladstone Prof.  
Fletcher, G. B. A., M.A. Camb  
Lectr.  
Mountford, J. F., M.A. Ox. and  
Birm., D.Litt. Birm. (Latin)  
Prof.

Onians, R. B., M.A., Ph.D.  
Lectr. (Latin).  
Cooper, C. G., M.A. St. And.  
Junnr. Lectr.  
Hartley, Mildred, B.A. Camb.  
Asst. Lectr.

*Commerce* [Chaddock Prof.  
Dewsnup, E. R., M.A. Manc.

Lectrs. :  
Miller, Margaret S., M.A., B.Com.  
Edin., Ph.D. (Econ.), Lond.  
Campbell, C. D., M.A., Ph.D.  
Taggart, P., F.S.A.A. (Account-  
ancy) Spl. Lectr.  
Mort, J. H. (Banking) Spl. Lectr.  
..... (Ind. Traffic Management)  
Spl. Lectr.



*Dentistry, v. infra*

*Economic Science*, v. also Com.  
 ..... Brunner Prof.  
 Macdonald, R. A., M.A.

Senr. Lectr.  
 Henderson, W. O., M.A. Camb.  
 Junr. Lectr. in Ec. Hist.

*Education*, v. also Hist., Physics  
 Campagnac, E. T., M.A. Ox. Prof.  
 Brigstocke, W. O., B.A. Lond.  
 Senr. Lectr.

## Lectrs. :

Collie, Frances A., M.A. Wales.  
 Kermode, Helen S., M.A.  
 Attlee, C. M., B.A. Ox.  
 Pollitt, A. W., Mus.Doc. Durh.,  
 F.R.C.O.  
 Tozer, A. H. D., B.A. Camb.  
 Winchester, Lily, M.A., Spl. Lectr.

## Teachers of Drawing :

Laverock, Florence H.  
 Cameron, Elizabeth L.  
 Butler, Dorothy F.  
 White, W. W.  
 Milne, Susan (Method) Asst.  
 Roberts, Hilda F.  
 (Phys. T.) Instruc.

*Engineering, v. infra**English Lang. and Philol.*

Grattan, J. H. G., B.A. Lond.  
 Baines Prof.  
 Schram, O. K., M.A. Wales,  
 Ph.D. Camb. Lectr.

*English Lit.*

Martin, L. C., B.Litt., M.A. Ox.  
 King Alfred Prof.  
 ..... A. C. Bradley Prof.  
 Shawcross, J., M.A. Ox.  
 Senr. Lectr.  
 Trenery, Grace R., M.A. Lectr.  
 McIlwraith, A. K., M.A. Ox,  
 D.Phil. Lectr.  
 Jones, Doris C., M.A. Tutor.

*Entomology* [Dutton Prof

Patton, W. S., M.B., Ch.B. Edin.  
 Evans, Alwen M., D.Sc. Lectr.

*Esperanto*

Collinson, W. E., M.A. Lond.,  
 Ph.D. Buchanan Lectr.

*Fisheries, v. Ocean**French* [J. Barrow Prof.

Eggli, J. E., Ag. des L., D ès L.  
 Renault, G. E., B. ès A. Dijon  
 Senr. Lectr.  
 Mayoux, J., Ag. d'Ang. Lectr.  
 Wright, Jean, M.A., D. de L'U.  
 Paris Lectr.  
 Moffat, Margaret M., M.A., D de  
 l'U. Paris Junr. Lectr.  
 3 French Tutors.

*Geography, v. also Geol.*

Roxby, P. M., B.A. Ox.  
 Rankin Prof.  
 Smith, W., M.A. Lectr.  
 Baker, S. J. K., M.A. Junr. Lectr.  
 Varley, W. J., B.A. Wales  
 Junr. Lectr.  
 Rodgers, D. D. E., B.A. Tutor.  
 ..... (Cartographer)

*Geology*

Read, H. H., D Sc. Lond.,  
 A.R.C.S., F.G.S.  
 Herdman Prof.

## Lectrs. and Demrs. :

Double, I. S., M.Sc., F.G.S.  
 Neaverson, E., D.Sc., F.G.S.  
 (Palæont.).

*German*

Collinson, W. E., M.A. Lond.,  
 Ph.D. (also Hon. Lectr. in  
 Comp. Philol.) Prof.  
 Picton, Ænid, B.A. Wales Lectr.

*Hebrew, v. Affild. Instns.**Hellenistic Gk., v. Affild. Instns.*

*History* [Assoc. Prof.  
 Jones, W. Garmon, M.A.

*Hist., Ancient*

Ormerod, H. A., M.C., M.A. Ox.  
 Rathbone Prof.

*History, Eccl., v. Affild. Instns.**History, Mediæval*

Copland, G. W., B.Sc. Lond.,  
 M.A., Litt.D. Assoc. Prof.

McKisack, May, M.A., B.Litt. Ox.  
Lectr.

*History, Modern*

Veitch, G. S., M.A., Litt.D.  
A. Geddes & J. Rankin Prof.  
Routledge, F. J., B.Litt. Ox., M.A.  
Senr. Lectr.  
Howden, Marjorie P., M.A. Lectr.  
McElwee, W. L., B.A. Asst. Lectr.

*Italian*

..... Senr. Lectr.  
*Law, v also Civic and Engin.*  
Blease, W. Lyon, LL.M. (Public  
Orator) Q. Vict. Prof.  
Batt, F. R., LL.M. (Comm. L.)  
Prof.

Shawcross, H. W., LL.M.  
Warr Mem. Lectr.  
Brown, H., M.A., LL.B. (History  
of English Law, etc.) Lectr.  
..... (Internat. L.) Hon. Prof.

*Mathematics, Applied*

Proudman, J., M.A. Camb., D.Sc.,  
F.R.S. Prof.  
Hargreaves, R., M.A. Camb.  
Reader.  
Street, R. O., M.A. Camb., M.Sc.  
Sr. Lectr.  
Doodson, A. T., D.Sc. (Analysis  
of Observations) Hon. Lectr.  
Grace, S. F., D.Sc., F.R.A.S.  
Lectr.

*Mathematics, Pure*

..... Prof.  
Lectrs. :  
Wilson, B. M., M.A. Camb., D.Sc.  
Lectr.  
Bradley, F. W., B.Sc., Ph.D.  
Haslam-Jones, U. S., M.A., D.Phil.  
Ox., B.Sc. Lond.  
Formby, J. A., B.Sc. Tempy.

*Medicine, v. infra*

*Music*

Fellows, Rev. Canon E. H., M.V.O.,  
M.A., Mus. Doc. Ox. and Dub.  
Also Lectr.  
*Naval Archit., v. Engin.*

*Oceanography*

..... Prof.  
Daniel, R. J., D.Sc. Lectr.  
Jenkins, J. T., D.Sc. Lond., D.Sc.  
Wales, Ph.D. Kiel (Sea  
Fisheries) Hon. Lectr.

*Palaeography and Diplomatics*

Twemlow, J. A., M.A. Ox.  
Assoc. Prof.

*Parasitology*

Blacklock, D. B., M.D., D.P.H.,  
D.T.M. W. Myers Prof.  
Southwell, T., D.Sc., Ph.D.  
Lectr. (Helminthology).

*Philology, Comparative, v. Ger-  
man*

*Philosophy*

Dorward, A. J., M.A. Edin. and  
Camb. Prof.  
..... Senr. Lectr.  
Turner, J. E., M.A., Ph.D.  
Reader

*Philosophy of Religion*

Webb, C. C. J., M.A., D.Litt. Ox.,  
LL.D. St. And.  
Forwood Lectr.

*Physics*

[L. Jones Prof.  
Wilberforce, L. R., M.A. Camb  
Rice, J., M.A. Belf. (Spl. Lectr. in  
*Educn.*) Assoc. Prof.  
Lectrs. and Demrs. :

Ablett, R., M.Sc.  
Edwards, E., B.Sc. Wales, M.A.  
Tor. (Spl. Lectr. in *Educn.*)  
Lipson, H., M.Sc.  
Roberts, R. W., D.Sc.  
Wallace, L. A., B.Sc.  
Beevers, C. A., M.Sc.  
Oliver Lodge Fellow.

*Physiology*

Roaf, H. E., M.D. Tor., D.Sc.,  
L.R.C.P., M.R.C.S.  
Holt Prof.

Lectrs. :

Duffield, F. A., M.B., Ch.B. Edin.  
Waller, W. W., B.A., B.M. Ox.  
Chamberlain, E. N., M.D., M.Sc.  
(Spl. Lectr. in *Educn.*)

Wadsworth, T. W., M.D., D.P.H.  
(Appl. Physiol.).

Walker, C. E., D.Sc., M.R.C.S.,  
L.R.C.P. (Histology).

Tozer, Frances M., B.Sc. Lond.  
(Histology and Cytology).

Follows, A. B., M.B., Ch.B.,  
M.R.C.S., L.R.C.P., D.P.H.

Holt Fellow.

### *Protozoology*

.....

Lectr.

### *Public Administration*

Simey, T. S., B.A. Ox. Lectr.

Wilson, P. A., B.A.

(Soc. & Polit. Theory) Tutor.

### *Russian Studies*

Boswell, A. B., M.A.

Bowes Prof. of R. Hist.

Lang. and Lit.

Slepchenko, B. S. Recog. Teacher.

### *Social Science*

Carr-Saunders, A. M., M.A. Ox.

Charles Booth Prof.

Jones, D. Caradog, M.A. Camb.

(Social Statistics) Sr. Lectr.

Black, Ellinor I., B.Sc. Lond.

Lectr.

### *Spl Tutors :*

Keeling, Dorothy C., M.B.E.

MacEwen, Christine W.

### *Spanish*

Peers, E. Allison, M.A. Camb. and

Lond. Gilmour Prof.

Lara, Maria V. de, Lic. en Hist.

Tempy. Lectr.

### *Vet. Science*

Share-Jones, J., D.V.Sc., M.Sc.,

F.R.C.V.S., Dir. of Vet. Studies

Prof. of V. Anat.

Gaiger, S. H., F.R.C.V.S., Prof.

(Diseases of Animals).

Lectrs. :

Davies, G. O., M.V.Sc., M.R.C.V.S.

Annett, H. E., M.B.E., M.D.,

D.P.H.

Elam, C. W., D.V.H., M.R.C.V.S.

Hughes, H. V., B.V.Sc.

Isherwood, R., M.R.C.V.S., Ad-

ministrator, Vet. Hosp.

Mattinson, A. B., O.B.E.,

F.R.C.V.S., D.V.S.M. Vict.

Shuttleworth, A. C., B.V.Sc., Res.

Surg., Vet. Hosp.

Mullen, A. L., M.R.C.V.S.,

D.V.S.M. Manc., Vet. Adviser.

### *Welsh*

Davies, J. Glyn, M.A. Assoc. Prof.

Owen, E., M.A., F.S.A.

(Welsh Mediæval Antiq.) Reader.

*Zoology*, v. also Entom., Ocean.,

Parasit., Protoz.

Orton, J. H., D.Sc. Lond., F.L.S.

Derby Prof.

Burfield, S. T., M.A. Camb., M.Sc.,

F.L.S.

Sr. Lectr.

Lectrs. and Demrs. :

Bisbee, Ruth C., M.Sc., F.L.S.

Fordham, Mahalah G. C., M.Sc.

W. Aus.

Herdman, E. Catherine, M.Sc.

Hon. Lectr.

### *Engineering*

#### *Civil Engineering*

Perrott, S. W., M.A.I. Dub. Prof

Whitaker, H. A., M.Eng. Lectr.

Hitchens, A. P., B.Eng. (also

Design and Draw.) Lectr.

Daymond, J. R., B.Sc. Wales

Jr. Lectr.

#### *Dock and Harbour Engineering*

Wilton, T. R., M.A. Camb.

Assoc. Prof.

#### *Economics, Applied*

The Prof. of Econ.

Lectr.

#### *Electrical Engineering*

Marchant, E. W., D.Sc. Lond.

Jardine Prof.

Teago, F. J., D.Sc. Durh. (Elect.

Machinery) Rankin Prof.

Lectrs. :

Prescott, J. C., D.Eng.

Brookes, R. C., B.A. Camb.

Gill, J. F., M.Sc., B.Eng.

#### *Law, Engineering*

Gordon, C. G. S., LL.B.,

M.I.Min.E.

Lectr.

*Marine Engineering*  
Lectrs.: The Prof. of Mech. E.,  
the Prof. of Appl Mech, the  
Prof. of Nav. Arch.

*Mechanical Engineering and  
Applied Mechanics*  
Scholes, G. E., M.B.E., M.Sc Manc.  
Harrison Prof. (Mech. E.).  
Mason, W., D.Sc. Manc. (Applied  
Mechanics) Hughes Prof.  
Mawson, H., D.Sc (Eng.) Lond.,  
A.R.C.S.

(Mech. Engin. and Hy-  
draul. Mach)

Sr. Lectr.

Clark, J. J., M.Eng.  
(Design & Drawing). Lectr.  
Okall, J., M.Eng. Lectr.  
Kearson, W. J., M.Eng. Lectr.  
Cole, E. B., M.Sc. Bris. Lectr.  
Smith, G., B.Sc. Lectr.

*Metallurgy*  
Bannister, C. O., M.Eng., A.R.S.M.  
(also Lectr. in Dental M.)  
Wortley Prof.  
Kennett, S. J., B.Sc., A.R.S.M.  
Lectr.

*Municipal Engineering*  
Brodie, J. A., M.Eng. Assoc. Prof.

*Naval Architecture*  
Abell, T. B., O.B.E., M.Eng,  
R.C.N.C. (ret)  
A. Elder Prof.  
Wilson, J. C. M., M.Eng., R.N.C.  
Lectr. & Demr.

*Railway Engineering*  
Aspinall, Sir J. A. F., D.Eng.  
Assoc. Prof.

### Medicine

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Bacteriology*  
Beattie, J. M., M.A. N.Z., M.D.,  
C.M. Edin. Prof.  
Lectrs :  
Ashcroft, L. S., M.B., Ch.B.,  
D.P.H.

Gray, J. D. A., B.Sc., M.B., Ch.B.  
Edin, F.R.C.P. (Pub. Health  
Bact).

Crawford, F. J. H., B.Sc., M.B.,  
Ch.B., M.R.C.S., L.R.C.P.  
Garrett Intern. Fellow.

*Cytology*, v. also *Physiology*  
Walker, C. E., D.Sc., M.R.C.S.,  
L.R.C.P. Assoc. Prof.  
Tozer, Frances M., B.Sc. Lond.  
Lectr.

*Dermatology*  
Stopford-Taylor, R., D.S.O., M.B.,  
Ch.B., F.R.C.S. Ed. Lectr.

*Diseases of Children*  
Fordyce, A. D., M.D. Edin. Lectr.

*Diseases, Infectious*  
Rundle, C. O.B.E., M.D. Lond.,  
D.P.H. Lectr.

*Diseases, Mental* [Lectr.  
Reeve, E. F., M.B., B.S. Lond.

*Diseases, Specific* [Lectr.  
Ross, A. O. F., M.D. Ed., D.P.H.

*Forensic Medicine and Toxicology* [Prof.  
MacFall, J. E. W., M.D., D.P.H.

Jones, Tudor J., M.B., Ch.B.  
Demr.

*Hygiene*  
..... Prof.

Frazer, W. M., M.D., M.Sc.,  
D.P.H. (Practical San.) Lectr.

Lectrs. in Pub. Health Admn.:  
Hanna, W., M.A., M.D. Belf.,  
D.P.H. (Admn. and Vaccn.).

Stallybrass, C. O., M.D., B.S.,  
D.P.H.

*Laryngology*  
Forster, H. V., M.Sc., M.B., Ch.B.,  
F.R.S.M. Lectr.

*Materia Med., Pharmacy, Phar-  
macol. and Genl. Therap.*

Dilling, W. J., M.B., Ch.B. Aberd.  
Prof.

Brookfield, R. W., M.D., M.R.C.P.,  
D.P.H.

Lectr. (Practical Therap.).  
Sadler, Eileen S., M.Sc. Demr.

*Medicine*

Hay, John, D.L., M.D., F.R.C.P.  
 Prof. & Clin. Lectr.  
 Cohen, H., M.D., M.R.C.P. Lectr.  
 Chamberlain, E. N., M.D. Lectr.  
 Coope, R., M.D., B.Sc  
 Museum Demr

## Clinical Lectrs :

Bligh, J. Murray, M.D., F.R.C.P.  
 Capon, N. B., M.D., F.R.C.P.  
 Johnson, W., M.D., F.R.C.P.  
 Jones, H. Wallace, M.Sc., M.D.  
 Pemberton, H. S., M.B.  
 Matthews, J. C., M.A., M.D. Camb.  
 Wadsworth, T. W., M.D., D.P.H.,  
 M.R.C.P.

*Midwifery and Gynæc.*

Robinson, A. L., M.D., B.S. Lond.,  
 F.R.C.S., F.C.O.G.  
 Prof. & Clin. Lectr.  
 Gemmell, A. A., M.A., M.D.,  
 F.R.C.S.E., M.C.O.G.  
 Lectr & Clin. Lectr.  
 Herd, S. B., M.D., M.C.O.G.  
 Asst. Lectr.

## Demrs. :

Malpas, P., M.B., Ch.M., F.R.C.S.  
 Datnow, M. M., M.D., M.C.O.G.  
 Marshall, C. M., M.B., Ch.B.,  
 F.R.C.S. Asst  
 ..... Boyce Fellow.

## Clinical Lectrs. :

Burns, J. W., B.A., M.D. Dub.,  
 F.R.C.S.E., F.C.O.G.  
 Nicholson, Ruth, M.B., M.S.,  
 B.Hy., D.P.H. Durh.  
 Willett, J. H., M.D.  
 Wilson, J. St. G., M.B., Ch.M.,  
 F.R.C.S.

*Ophthalmology*

Chavasse, F. B., M.A., M.D.,  
 D.O.M.S. Ox. Lectr.

*Pathology*

Dible, J. H., M.B., Ch.B. Glas.,  
 F.R.C.P. Holt Prof.  
 Gleave, H. H., M.B., Ch.B. Leeds  
 Senr. Lectr.

Evans, W. Howel, B.Sc., M.D.

(H.) Lectr.

Jones, R. Watson, B.Sc., M.B.,  
 Ch.B., M.Ch. Orth., F.R.C.S.  
 (H.) Lectr.

Collins, D. H., M.B., Ch.B.,  
 M.R.C.S., L.R.C.P.

Junr. Lectr.

Pownall, Margaret, M.B., Ch.B.,  
 D.P.H. Manc. Junr. Lectr.

Gerrard, W. W., M.B., Ch.B.,  
 M.R.C.S., L.R.C.P.

Holt Fellow.

*Pharmacology and Genl Therap.*,  
 v. Mat. Med., etc.

*Public Health*, v. Hyg. and  
 Chem.

*Radiology*

Roberts, R. E., M.D., B.Sc.,  
 D.M.R.E., D.P.H. Lectr.

## Asst. Lectrs. :

Mather, J. H., M.B., Ch.B., B.Sc.,  
 D.M.R.E.

Walker, Nora M., M.B., Ch.B.  
 Vict., D.M.R.E.

Hon Asst Lectr.

*Surgery*

Whitaker, P. H., M.B., Ch.B.,  
 M.R.C.S., L.R.C.P., D.M.R.E.  
 Prof.

Kelly, R. E., C.B., M.D., B.Sc.,  
 F.R.C.S.

Prof. and Clin. Lectr.

..... (Orthop.)

Lectr. and Clin. Lectr.

..... (Operative S)

Lectr. and Clin. Lectr.

Kennon, R., M.D., F.R.C.S.  
 (Practical S.) Lectr.

Wells, C. A., M.B., Ch.B., F.R.C.S.  
 Demr.

Reid, H., M.B., Ch.B., F.R.C.S.,  
 L.R.C.P. Museum Demr.

Hughes, T. L., M.B., Ch.B.

Thelwall Thomas Fellow.

..... Lady Jones Fellow.

## Other Clinical Lectrs. :

Armour, T. R. W., M.B., C.M.  
 Edin., F.R.C.S.

Davies, C. O., M.B., B.S. Lond., F.R.C.S.	<i>Anæsthetics</i>	Smith, G. F. R., M.B., B.S. Lond., M.D.	Lectr.
Heaney, F. Strong, M.A., M.D. Dub.		Ireland, G., B.D.S.	Demr.
Simpson, G. C. E., B.A., M.B., B.C. Camb., B.Sc., F.R.C.S.	<i>D. Anat., Histol., and Physiol.</i>	Woods, J. A., M.D.S., L.D.S.	Lectr.
McMurray, T. P., Ch.M. Belf.			
Morrison, J. T., M.B., Ch.B.		Guyler, T. W. C., B.D.S.	Demr.
Jeans, F. A. G., M.A., M.B., B.Ch. Camb., F.R.C.S.	<i>D. Mechanics and Prosthetics</i>	Fenn, H. R. B., L.D.S., D.D.S. Penn.	Lectr.
Rawlinson, J. H., M.B., Ch.B., F.R.C.S.E.		Leatherbarrow, H., L.D.S.	Demr.
Williams, O. Herbert, M.B. Edin., F.R.C.S., D.P.H. Ox.	<i>D. Metallurgy, v. Met.</i>		
Wolfenden, H. F., M.D., F.R.C.S.	<i>Operative D. Surgery</i>	Collinge, J. S. H., L.D.S.	Lectr.
<i>Tropical Med.</i>		Lewis, G. J., L.D.S.	Demr.
Yorke, W., M.D., M.R.C.P., F.R.S. Sir A. Jones Prof.		Ball, G. S., L.D.S.	Asst. Demr.
<i>Tropical Diseases of Africa</i>	<i>Chn. D. Surgery</i>		
Gordon, R. M., M.D. Dub., D.P.H., D.T.M.	8 Lectrs.; 1 Demr.		
<i>Tropical Sanitation</i>	<i>Orthodontia</i>	Mountford, E. H., L.D.S.	Lectr.
.....		Watkin, H. G., L.D.S.	Demr.
<i>Vaccination, v. Hygiene</i>			

## University Extension

Dentistry	Secy. to the Univ. Extension Board :
<i>Dental Surgery</i>	E. Hickinbotham, B.A. Ox.
Gilmour, W. H., M.D.S., L.D.S., LL.D. (Penn.) (Dir. of D. Educn) Cohen Prof.	Joint Secs. to the Jt Committee on Tutorial Classes :
Softley, J. W., B.D.S. (and Op. D. Surg.) Demr.	E. Hickinbotham, B.A. Ox. F Garstang.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL.D.; *Numismatics*, Milne, J. G., M.A.; *Central American Arch.*, Gann, T. W. F., M.R.C.S., L.R.C.P.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. Observatory est. 1845, Tidal Institute, 1919. Administered by a Joint Committee representing the Univ. Council and the Mersey Docks and Harbour Board. Director, Prof. J. Proudman, M.A., D.Sc., F.R.S. Assoc. Dir., A. T. Doodson, D.Sc. See also App. XXIV. A. IV.

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. F. B. Heiser, M.A. Ox. Certain courses (not given in the Univ.) are recognized as Univ. courses in part for the ordinary degree of B.A.

Recognized Teachers in *Hellenistic Greek*, Roberts, Rev. E. A. H., M.A. Ox.; *Eccl. Hist.*, Steinly, Rev. E., M.A.; *Hebrew*, Keith, Rev. K. E., M.A.

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith, M.A. Recognized Teachers in *Maths.*, Smith, Miss E. M., M.A.; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, B.A. Recognized Teachers in *Latin*, Sampson, Miss M., M.A.; *English Lit.*, .....

DIOCESAN TRAINING COLLEGE, Chester. Recognized Teachers: Thomas, R. A., O.B.E., M.A., Principal (in *Maths.*); Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*); Lewis, W. E., B.A. (in *Maths. and Physics*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Departs. with research labs. at Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent numerous expeditions to tropical countries. Publishes *Memoirs and Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. D.T.M. course, 3 mos. D.T.H. course, 3 mos. after taking D.T.M.

PATHOLOGICAL LABORATORY, County Mental Hospital, Rainhill.

FACULTY OF MEDICINE: 20 general and special hospitals are affiliated for the purpose of clinical or practical work required for degrees and diplomas in the Faculty of Medicine.

## GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 126,000 vols., and includes among special collections great series, such as Migne, Pertz, Muratori, and Acta Sanctorum. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, a unique number of Aldines, and over 150 incunabula, the earliest specimen of printing being a leaf of the 42-line Bible, *circa* 1454, and the final sheets of the Constituciones of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Depts.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Biochem., Bot., Chem., Physical and Electro-Chem., Electricity (Applied), Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool, and Sierra Leone), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. See also App. XXIV. A. III. HOSPITALS available for Clinics, 4 general and 5 special, containing 1530 beds, which together constitute the clinical school. The trade of the port ensures frequent cases of infection.

Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Labs. for research at prescribed fees.

**FACULTIES.** (1) Arts (with Schools of Archit., Archæol., Social Sciences and Administration (including Economics, Commerce, Geography, Social Science and Publ. Administn.), Local History and Records, Russian Studies; Departments of Civic Design and Educn.); (2) Science; (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans:* (1) Prof. A. Bruce Boswell (Russian), (2) S. T. Burfield (Zool.), (3) Prof. W. J. Dilling (Pharmacology), (4) Prof. Batt (Commercial Law), and (5) Prof. Abell (Naval Architect.). Director of Dental Educn., Prof. Gilmour; of Veterinary Studies, Prof. J. Share-Jones.

**ADMISSION.** See Appendix XXII

**DEGREE COURSES:** 3 yrs., B.A., B.Com., B.Sc., LL.B.; 3 or 4 yrs., B.Eng. (*plus* 2 yrs.' appr'ship); 5 yrs., B.Arch., B.V.Sc.; 6 yrs., M.B., Ch.B.; not less than 5½ yrs., B.D.S.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting, (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

**HIGHER DEGREES:** Ph.D., v. p. 14. (1) *Graduates of Liverpool in Faculty concerned.* Obtainable after Bachelorship: 1 yr. (after Hons. B.Sc., ord. B.Sc., after qual. examn.), 2 yrs. (after passing Final B.Sc. at end of second yr.), M.Sc.; 15 mos., M.Ch.Orth.; 2 yrs., M.A., M.Com.; 2 yrs. by thesis, 5 yrs. by examn., M.D.; 2 yrs., Ch.M., M.H. (Hygiene), M.D.S.; 1 yr. study (with thesis and examn. or examn. wholly), M.V.Sc., LL.M. (Ord. B.Eng. 1 yr. study in addition), M.Eng. After Mastership: 7 yrs. from date of B.A., D.Litt.; 3 yrs., D.V.Sc.; 5 yrs., LL.D. After Mastership or Ph.D.: 5 yrs. after M.Sc., 4 yrs. after Ph.D. (Science), D.Sc. (5 yrs. after M.Eng. or Ph.D. Engin.), D.Eng.; 10 yrs., after B.Arch., on distinguished archit. work, M.Arch. (2) *Graduates of approved Univs.* After Bachelorship and 2 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Com. (1 yr. elsewhere), M.Sc. (1 yr. elsewhere), M.H., M.V.Sc. (1 yr. elsewhere), LL.M. (1 yr. elsewhere), M.Eng. The M.A. is also open under certain conditions to B.Arch. and grads. in Liv. Univ. of a Faculty other than Arts, and the M.Com. to graduates of Liverpool other than B.Com. and M.D.S., 3 yrs. standing and 1 yr. study (thesis and/or examn. wholly). (3) *Non-Graduates.* After 3 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Sc. (1 yr. elsewhere), LL.M. (1 yr. elsewhere), M.Eng.

The M.Ch.Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed., or I.) or Fellows of the American Coll. of Surg.

**DIPLOMAS.** Archæol., 1 yr. course; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Educn. (for grads.), 1 yr.; Geography, 2 yrs.; Public Administration, 3 yrs.; L.D.S., not less than 4 yrs.; D.P.H., 9 mos. or 1 yr.; D.T.M., 3 mos.; D.T.H., 3 mos. (after taking D.T.M.); D.M.R.E., 3 terms; D.V.H., 6 mos.; Engin., 2 yrs. after final examn. for Certif.

**CERTIFICATES.** Archæology, 2 yrs.' course, separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms of 2 sessions; Social Science, 1 or 2 yrs.; Educn., 1 yr.; Engin., 3 yrs. (2 yrs. for cand. who have taken appd. techn. course); Univ. extension courses, 1 yr.

**FEES.** For Matricn., £2. Guild of Undergrads., £2:10s. p.a. **DEGREE COURSES:** B.A., or B.Com. (3 yrs.), £90 (B.A. Special Studies, 4th yr. £10;



B Com. Hons., 4th yr. £10; M.A. or M.Com. (sessional), £5; B Arch. (5 yrs.), £150; B Sc. (3 yrs.), £105 to £120 (B Sc. Hons., 4th yr. £40); M Sc (sessional), Maths., £5; other subjs., £10, M.B., Ch B. (6 yrs.), £260; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.H. (2 yrs.), £80; M.Ch.Orth. (15 mos.), £41; B D.S., £250, and for students taking Dental Mechanics with a private practitioner, £160; M.D.S. (2 yrs.), £22 or £27; B.V.Sc. (5 yrs.), £175; M.V.Sc., 1st yr., £30, 2nd yr., £20; LL.B. (3 yrs.), £48: 12s.; LL M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M Eng (Research), £20; Ph.D. (2 or 3 yrs.), £27 or £40. 10s. Apparatus fee per session for candidates taking Research (Sc., Med., Eng., except Maths.), £10. DIPLOMA COURSES: Archit. (5 yrs.), £150; Civ. Des. day, £22: 10s.; Educ. (1 yr.), £20; Com. (3 yrs.), £90, Archæol. (1 yr.), £10; Geography (2 yrs), 1st yr., £20, 2nd yr., £10; Public Admin. (3 yrs.), £30; D.P.H. (1 yr.), £47; D.T.M. (3 mos.), £21, D.T.H. (3 mos.), £12: 16s.; D.M.R.E. (3 terms), £31: 10s.; L.D.S. Liv., £198, and for students taking Dental Mechanics with a private practitioner, £138: 15s.; M.R.C.V.S. (5 yrs.), £150; D.V.H. (6 mos.), £21; Eng. (after taking Eng. Cert.), £96. CERTIFICATE COURSES: Archit. Des. (1 yr.), £35; Civ. Des. (2 terms of two sessions), £10; Soc. Science (2 yrs.), £28; Archæol. (2 yrs.), £30; Educ. (1 yr.), £20; Engin. (2 or 3 yrs.), £96-£144. Separate Arts Subjects: as for separate courses.

EXAMN. FEES. M.B. and Ch.B., B.V.Sc., B D S, £15; B.Arch., £5: 10: 6; other Bachelor degrees, £4; Master's degree (examn. or on application), M.H., 10 gs.; Ch.M., M.Ch.Orth., M.V.Sc., M.D.S., £5; others, £3; Doctor's (examn. or on application), Ph.D., £8, others, £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Public Admin., £1; Civic Design, £1: 10: 6; Architect., £5: 10: 6; Educn., £2; Geog., £2; Eng., £3, others, 5 gs. Certifis. Examns., Eng., £6; others, £2. Degree Admission Fees, £6 for first degree, subsequent degrees, £5; Dipl. Eng., £3; Certif. Eng., £2; others, £1.

POST-GRADUATE SCHOLARSHIPS, ETC. A large number of valuable Fellowships and Scholarships are offered annually in all faculties. For Garrett International and Johnston Fellowships for Research and Ridgeway Research Scholarship, v. App XXIII. 16, 18.

RESIDENCE, ETC. Two hostels for 103 men (fees, £70); one for about 90 women (fees from £65 to £72). Students' Union Club House cost £20,000.

APPOINTMENTS. Secretary, S. Dumbell, M.A. Secy for Women's Appointments, Miss E. A. Buller, B A.

ASSOCIATION OF GRADUATES. Besides "Convocation"—there is a Liverpool University Society, with mainly social functions.

A UNIVERSITY EXTENSION BOARD and a University Joint Committee on Tutorial Classes are responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free to members of the Univ.; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; *Students' Magazine, The Sphinx*, 6d. (4 numbers per session); *Report on Research and other Original Work* (Nov.), free; *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898-1920, 10s. 6d.; *A Brief Record of Work and Progress*.

## THE YEAR 1931-32

BENEFACTIONS. Anon, £5000 for extension of the Students' Union; Mrs. Alsop, £1914 for further endowment of the James W. Alsop Lectureship in

Music; Rockefeller Foundation, £1000 for completion of the Social Survey of Merseyside and publication of results.

**NEW POSTS.** Lectureship in Spectrosc., Woman Secy. for Women's Appointments, Woman Supervisor of Lodgings for Women, Hon. Lectureship in the Pathol. of Orthopædic Conditions, Junior Lectureship in Econ. Hist., Asst. Lectureships in Pure Maths. and in Appd. Maths., Obstetric Asst.

**OTHER DEVELOPMENTS.** New School of Architecture (including Dept. of Civic Design) in course of construction. Reconstruction of Marine Biol. Lab. at Port Erin.

**CHANGES IN REGULATIONS.** Among the more important are—*M.A.*: amended to exclude candidates for degree of M.A. from presenting an examn. without a thesis. *Litt.D.*: amended to exclude candidates who have not taken Bachelor's degree at Liv. Univ. *M.B., Ch.B.*: Special Chemistry replaced by an extension of the course in Biochem. during 2nd and 3rd yrs. *D.P.H.*: candidates (full-time study) can now complete the course in 9 calendar months. *D.M.R.E.*: three terms' course instead of two.

**RESIGNATIONS AND DEATHS.** *Resignations and Retirements*: Prof. J. S. Macdonald (Physiol.); Dr. C. Thurstan Holland (Radiol.); Mr. K. W. Monsarrat (Op. Surg. and Clin. Surg.); Mr. R. Craig Dun (Clin. Surg.); Dr. A. Gordon Gullan (Clin. Med.); and Prof. D. A. Slater (Latin), retired; Prof. J. R. Bellerby (Econ. Sci.), resigned; Dr. M. Praz (Italian), on appt. to Chair of Italian, Univ. of Manchester; Dr. L. A. Reid (Philos.), on appt. to Chair of Philos., Univ. of Durham. *Deaths*: Pro-Chancellor Sir H. Wade Deacon, Prof. Rushton Parker (Surg.), Emer. Prof. Watkinson (Latin), Prof. H. Leith Murray (Midwif. and Gynæcol.), A. Scott (Ichthyol.), H. C. Chadwick (Marine Biol.), Dr. J. Middlemas Hunt (Hon. Dean, Liv. School Trop. Med.), Major H. E. Barrow (O.T.C.).

**EXTRA-MURAL WORK.** Extension Lectures were given to the general public, to Teachers, Technical Colls., and Schools, in the area from Barrow in the north to Crewe in the south, and from Wigan to the coast. The Univ. Extension Board arranged 144 lectures at various centres. 64 Tutorial Classes arranged in conjunction with W.E.A. Students on Roll, 1318. Series of popular afternoon and evening public lectures at the Univ.

**VISITS OF TEACHERS.** (a) *Visitors to the Univ.*: Prof. L. B. Namier (Univ. Manchester), on "The Present Position of Jews in Eastern and Central Europe"; Prof. A. A. Bowman (Univ. Glasgow), on "Animism and Religious Experience"; Mons. René Jasinski (Univ. Lille), on "Les tendances du théâtre français contemporain."

(b) *Visits to Other Univs.*: Prof. E. Allison Peers—(i.) Rede Lecture at Cambridge, (ii.) Centennial Lecture, New York Univ. Prof. P. M. Roxby lectured at various Univ. centres in China.

**HONORARY DEGREES.** *Litt.D.*—John Ramsay Bryce Muir, Siegfried Sassoon. *LL.D.*—Charles Glover Barkla, Muirhead Bone, Sir Henry Wade Deacon, Sir Benjamin Sands Johnson, James Joseph Mallon, Eleanor Florence Rathbone, Ralph Vaughan Williams. *D.Eng.*—Henry Selby Hele-Shaw. *M.A.*—Alice Gertrude Caton, Jessie Lupton Coates, Harold Corti Emmerson. *M.Sc.*—William Horton. *LL.M.*—John Carey Bromfield. *M.Eng.*—Harry Hughes Harrison.

**STUDENTS.** Full-time: total, 1838, including 173 graduates. Part-time: total, 446, including 267 graduates.

DEGREES CONFERRED. Litt.D., 1 ; Ph.D. (Arts), 1 ; M.A., 22 ; B.A. Hons., 58 ; B.A. Ord., 47 ; B.Arch. Hons., 15 ; B.Arch. Ord., 6 ; B.Com. Ord., 7 ; D.Sc., 1 ; Ph.D. (Sci.), 10 ; M.Sc., 18 ; B.Sc. Hons., 42 ; B.Sc. Ord., 45 ; M.D., 7 ; M.H., 1 ; Ch.M., 1 ; M.Ch.Orth., 4 ; M.B., Ch.B. Hons., 6 ; M.B., Ch.B. Ord., 32 ; B.D.S. Hons., 1 ; B.D.S. Ord., 3 ; M.V.Sc., 2 ; B.V.Sc., 2 ; LL.M., 3 ; LL.B. Hons., 10 ; LL.B. Ord., 5 ; Ph.D. (Engin.), 1 ; M.Eng., 16 ; B.Eng. Hons., 21 ; B.Eng. Ord., 11. Total, 399.

# UNIVERSITY OF LONDON

Central offices—South Kensington, S.W.7    Telegraphic address—University, Southkens, London.

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—The Rt. Hon. the EARL OF ATHLONE, K.G., G.C.B., G.C.M.G., G.C.V.O., D.S.O.

VICE-CHANCELLOR—Prof L. N. G. FILON, C.B.E., T.D., B.A. Camb., M.A., D.Sc., F.R.S.

DEPUTY VICE-CHANCELLOR—W. R. HALLIDAY, M.A., B.Litt. Ox., LL.D. Glas.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A.

CHAIRMAN OF THE COURT—The Rt. Hon. LORD MACMILLAN, M.A., LL.D. Edin.

PRINCIPAL—EDWIN DELLER, LL.D., O Lég. d'H.

CLERK OF THE COURT—H. CLAUGHTON, C.B.E., B.A.

SECRETARY TO THE SENATE—MAURICE WEBB, C.I.E., M.A. Ox.

ACADEMIC REGISTRAR—S. J. WORSLEY, D.S.O, M.C., B.A.

EXTERNAL REGISTRAR—G. F. GOODCHILD, M.A., B.Sc.

UNIVERSITY EXTENSION REGISTRAR—JOHN LEA, M.A.

SECRETARY OF THE MATRICULATION AND SCHOOL EXAMINATIONS COUNCIL—S. H. SHURROCK, M.A.

SUPERINTENDENT OF EXAMINATIONS—R. B. P. WALLACE, B.A., LL.B. Camb.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REPRESENTATIVE IN PARLIAMENT—Sir ERNEST G. G. GRAHAM-LITTLE, B.A., M.D., F.R.C.P.

The several Incorporated Institutions, Departments, and Schools of the University, together with other Institutions having Recognized Teachers, are referred to on pp. 117-189 below.

University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ." For explanation of these terms, see below.

## GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning*

*examns. or procedure except such as is contained in their own official Regns These can always be obtained on application at the Univ. offices ]*

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate was empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition could be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The Senate has the power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to examns. for degrees in all subjects except Medicine, Pharmacy, Mining, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical.

Further changes in the constitution of the Univ. have been made by the Statutes under the University of London Act of 1926. These Statutes came into force in March 1929. The most important change is the creation of a new body known as the Court, which is responsible for the finances of the Univ.

The two original colleges of the Univ. have been incorporated in it, the University Coll. in 1905 and King's Coll. in 1908, the Senate taking over the responsibility for their administration.

**LIBRARIES.** The libraries belonging to the Univ. of London contain in the aggregate c. 625,000 vols. and pamphlets distributed in three chief centres, as follows: (1) *The Univ. Library* in the Central Building at S. Kensington (c. 253,500 vols. and pamphlets) which provides a free lending library for students and well-equipped research libraries for post-graduate students, incl. the Goldsmiths' Library of Econ. Literature, foremost, on the historical side, among the econ. libraries of the country (c. 60,000 vols. and pamphlets). (2) *Univ. Coll.*, Gower Street (c. 300,000 vols. and pamphlets), incl. the General Library, a series of separate "seminar" libraries (known as the Arts Libraries), the Science Library, and the Med. Sciences Library. (3) *King's Coll.*, Strand (c. 75,000 vols. and pamphlets), incl. a general library and several special collections. The libraries of the Institute of Historical Research, the Francis Galton Laboratory, and the Commerce Degree Bureau, and a small students' library at Goldsmiths' Coll., New Cross, are also the property of the Univ.

There are also important specialized and general libraries belonging to the Schools and instns. of the Univ., incl. those of the Med. Schools, the London School of Hygiene and Trop. Medicine, the Royal Coll. of Music, the School of Oriental Studies, and the London School of Economics.

Full particulars of the above are included in R. A. Rye: *Students' Guide to the Libraries of London* (v. *infra*—Publications).

**MUSEUMS.** Among the many Museums which, in addition to those belonging to the Schools and Instns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

**LABORATORIES AND INSTITUTES.** See pp. 132-138 below and under the several colleges.

**FACULTIES.** 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Rev. Canon Claude Jenkins (King's Coll.). 2. Prof. Reed (King's Coll.). 3. Prof. H. A. Smith (Lond. Sch. of Econ.). 4. Dr. William Wallace (R. Acad. of Music). 5. Dr. A. M. H. Gray (Univ. Coll. Hosp.). 6. Prof. F. Horton (R. Holloway Coll.). 7. Prof. A. H. Jameson (King's Coll.). 8. Prof. Eileen E. Le P. Power (Lond. Sch. of Econ.).

**Committees of the Senate.** The more important are—The Academic Council, the Council for External Students, the Collegiate Council, the University Extension and Tutorial Classes Council, the Matricn. and School Examinations Council, the Finance and General Purposes, Library, and Scholarships Committees. There are 18 other Committees besides the 46 Boards of Studies.

**TERMS** for Univ. and Inter-collegiate courses, 1932-33: Oct. 6-Dec. 15, Jan. 10-March 21, April 25-June 27.

**DEGREES.** B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.M., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Pharm.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Music, Medicine (non-clinical subjects), Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Pure Sc., Agric., Hortic., Vet. Sc., and, for External students, Estate Management, and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics; the M.Sc. in Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science, and, for External students, Estate Management), Engineering and Economics.

**ADMISSION.** See Appendix XXII.

**EXTERNAL** students preparing for the Bachelorship undergo Intermediate and Final exams. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. All External Students (except, for the present, those overseas) are required to register for each examn., and all must previously have matriculated. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

**EXTERNAL EXAMINATIONS IN THE OVERSEAS DOMINIONS.** Certain of the exams. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India only the exams. in the Faculty of

Theol. are held for civilians; but other examns. may be held for military personnel. The Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 110 overseas centres. The Univ. Examns. in Science have also been held under special arrangements at 12 overseas centres, including Ceylon, the Government of which colony now awards annually scholarships of a total value of over £4000 per annum upon the results of the Univ. Final examns. in Arts and in Science.

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Intern. course generally extends over 1 yr. As a general rule, Hons. may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Intern. may be accepted subject to regns. in lieu of a course taken in this Univ.

Any person who has passed the Intern. examn. as an *External* student may be allowed to take the Final examn. for the first degree after having attended for 2 yrs. as an Internal student an approved course of study for it, but the degree is not conferred till after a further yr.'s course of approved study.

ARTS. In the Intern. examn. 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Classical Persian, Sanskrit, Pali, Classical Hebrew, or Classical Chinese. For B.A. (General) Degree 3 subjects, including a language other than the candidate's own language, must be taken. The Honours subjects for the Final examn. are Archæol., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Greek, Latin, Dutch, Scand. Langs., Anthropol., Sociology.

The B.A. course in Archit. extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier yrs.' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Hist. of Art, Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for Internal students only, in Comp. Philol., Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Hons. at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only and is conferred for original work.

*Diplomas.* Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students); Fine Art (3 yrs.); Dramatic Art (2 yrs.); Slavonic studies (2 yrs.); Hist. (4 yrs. part-time or 1 yr. full-time); Hist. of Art (4 yrs. part-time or 2 yrs. more intensive); Public Health (Academic and External); Journalism (2 yrs.); Literature (4 yrs. part-time or 1 yr.

full-time); the Literary, Historical, and Comparative Study of the Bible (4 yrs. part-time); Town Planning and Civic Archt. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms); Academic Dip. in Geog. (120 hours); External Dip. in Geog.; Sociol., etc. (*v. infra*, Econ.); Librarianship (2 yrs. for day students, 3-5 yrs. for evening students); Academic Dips. in Compar. Philol., Military Studies, Psychol., Anthropol., and Archæol. (2 yrs.); Hist. of Art (1 yr.).

**SCIENCE.** For the Intern. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthropol., Milit. Studies, Geog., Human Anat. and Morph., and Logic and Method (Ext. students), Statistics (Int. students). For B.Sc. (Special) examn. a student selects 1 principal and (except in case of Human Anat. and Morphol. or Maths.) 1 subsidiary subject. Honours may be awarded at both B.Sc. (General) and B.Sc. (Special) examn. For the M.Sc. for Internal students a thesis is required except in Maths.

For the Degree in Agric. the Intern. examn. includes Chem., Bot., Zool., and Physics; the Final—Agric., Bio-Chem., Agric. Bot., and Agric. Engin. In Horticulture the subjects for the Intern. are Chem., Bot., Zool., Physics, Geol., and Surveying; for the Final, Practice of Hortic., Book-keeping, Principles of Hortic., and Entom. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order: Prelim. (Inorganic Chem. and Physics), Intern. Pt. I. (Organic Chem., General Biol., and Vet. Anat.), Pt. II. (Vet. Physiol.), and Final (Vet. Pathol. and Vet. Hyg.). There is no Doctorate in Agric. or in Vet. Sc., Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Intern. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work). For the Degree in Estate Management there are 2 examns., Intern. and Final. Intern.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law; (Pts. I. and II. may be taken separately). Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Constrn., and *either* A (Agric., Forestry, Agric. Law) *or* B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). Pts. I. and II. may be taken separately.

**Diplomas.** Academic Dip. in Bacteriology (1 yr.); Academic Dip. in Biology (1 yr.).

**THEOLOGY.** The Intern. course is in Bibl. Langs., Class. Langs., Ancient Hist., and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek N.T. and Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

**Diplomas.** Academic and External Diplomas in Theol. and Diploma in Theol. (Univ. Extension and Tutorial Classes Council).

**LAW.** The subjects of the Intern. course are Rom. Law, Engl. Const. Law and its Hist., Engl. Legal System, and Crim. Law and Crim. Procedure, *or* Indian Penal Code and Crim. Procedure. For LL.B. candidates must offer Principles of Common Law and Equity and four other subjects selected from



limited groups. Candidates for the LL.M. are examined in three selected subjects. Candidates for the LL.D. must hold the LL.M.

**MEDICINE.** The course extends normally over  $5\frac{1}{2}$  yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken 18 mos. after passing the 1st. The Final course for the M.B., B.S. degrees falls into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Obstetrics and Gynæcology. Examn. in the groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K. and Irish Free State, certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees for External students, are accepted by the Univ. of London: Univs. of Dalhousie, McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 yrs.—there are 4 examns. The subjects of the Final examn. are Med., Surg., Pharm. and Mat. Med., Pathol. and Bacteriol., Oper. D.S. and Orthodontics.

B.Pharm. The Intern. subjects are Bot., Chem., Physics, and Zool.; Final subjects are Bot., Chem., Pharmacognosy, and Pharmacy.

**Diplomas.** Clinical Pathology; Psychological Medicine; Nursing; Public Health.

**Music.** The subjects for the Intern. examn. are Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. examn.:—Harmony and Compn., Counterpoint, Fugue and Canon, Hist. of Music, Musical Analysis, Musical Exercise. Candidates for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn. and a musical exercise.

**ENGINEERING.** Intern. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engn. Drawing, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed; in *Mining* 6, of which Mining Geol. and Mineral., Mining, Mine Surveying, Mineral Dressing, and Assaying are compulsory; in *Metall.* 6, of which Metall., Metall. Analysis, Metallography and Pyrometry, Electro-Metall., and Fuel and Refractory Materials, are compulsory. For an Honours degree in Engn., Mining, or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

**ECONOMICS.** The Intern. examn. for B.Sc. (Econ.) is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., Maths. or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution. For the Final—Econ., two alternative subjects, and a selected

subject. Passages are set from French, German, and Italian works for translation and comment.

For the B.Com. the Intern. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—English Econ. Hist., Accounting, or a subsidiary Approved Mod. Foreign Lang. The B.Com. examn. is in 2 parts: I.—the Present Organization of Industry, Banking, Trade, and Transport; Econ. Development of the Empire; Elements of Comm. Law; Statistical Method; a selected subject; II.—A selected group of subjects.

*Diplomas.* Academic Dip. in Public Administration (2 yrs.), also for External Students; Academic Dip. in Sociology and Social Administration (2 yrs.' course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs.' part-time or shorter full-time course).

**MILITARY EDUCATION.** See Appendix I. Military Studies is one of the optional subjects for the Intern. and Final B.A. and B.Sc. (General) examns. An Academic Dip. in Military Studies is awarded. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

**POST-GRADUATE STUDY AND RESEARCH.** In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or of Ph.D. in the several Faculties (but not in Medicine and Surgery), and for the degree of M.A., LL.M., or M.Sc. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (v. *infra*—Publications).

An Internal student who is a candidate for the Ph.D. degree must have graduated in the Univ. in the faculty of Theology, Arts, Music, Medicine, Science, Engineering, or Economics, or have been registered as a candidate for the degree after passing approved examns. for a degree in another Univ. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a candidate for the Ph.D. degree in his first degree Faculty as an External student on receiving the approval of the Council for External students.

**FEES.** Matricn.—2½ gs.; Examn. and Graduation—12 gs. (Med., 20 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

**STUDENTSHIPS AND SCHOLARSHIPS.** Studentships are awarded by the

Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archæology; one of £50 in Physiology; £100 and £140 in Arts; £100 in Econ.; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of post-graduate research; 2 Univ. *Travelling Scholarships* of £275 each, open to Internal and External graduates in all faculties, and 7 Univ. Studentships of £150 each, open to Int. and Ext. graduates in Theol., Arts, Laws, Music, and Engineering; *Duveen Travelling Studentship* of £450 for research in Oto-Rhino-Laryngology. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet, obtainable post free on application to the Univ., gives details of many others.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass Part I. of Final Examn. in Commerce, and propose to pursue study of Commerce abroad.

For Research grants, etc., open to grads. of other Univs., see App. XXIII.

**ADVISORY SERVICE FOR EXTERNAL STUDENTS.** Any External Student who is duly registered for an external examn. and experiences any difficulty in connexion with the appropriate studies may apply to the External Registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an Advisor. For preliminary consideration there is no fee, but for detailed study scheme a fee of 1-4 guineas is charged.

**THE COMMERCE DEGREE BUREAU** exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree exams., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W.C.1, where the work of the Bureau is associated with the general **UNIVERSITY APPOINTMENTS BOARD** work. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

**RESIDENCE.** Hostels recognized by the Senate: Connaught Hall of Residence, 16-20 Torrington Square, W.C.1; Univ. Coll. Hall, Ealing, for 52 men students (fees for residence, 30s. to £3 a week); College Hall, Malet Street, W.C.1, for women students; King's Coll. Theological Hostel, Vincent Square, S.W.1; The Platanes, Denmark Hill, S.E.5, for King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart.'s, Guy's and Middlesex Hospl. Med. Schools, the Theol. Colls. at Hampstead and Highbury, and the Women's Colleges. **LODGINGS INFORMATION BUREAU**, 68 Torrington Square, W.C.1.

**A UNION SOCIETY** on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, 68 Torrington Square, W.C.1. There is also an **ASSOCN. OF LONDON GRADUATES**. A **UNIVERSITY COUNTRY CLUB** at Chequers was formed (by a private company) in 1924.

**UNIVERSITY EXTENSION.** The work of the University Extension and Tutorial Classes Council may be considered to fall under the following heads: (a) Univ. Extension Lectures and Tutorial Classes; (b) Holiday Courses for

Foreigners ; (c) Examn. for the Certif. in Religious Knowledge ; (d) Examns. for Certificate of Proficiency in English, and for Certifs. in Danish, French, German, Italian, Norwegian, Russian, Spanish, and Swedish ; (e) Examn. for Certif. in Diction and Drama ; (f) Examns. for Diplomas in History, Literature, Economics and Social Science, History of Art, the Literary, Historical and Comparative Study of the Bible ; (g) Examn. for Diploma in Psychological Medicine ; (h) Examn. for Diploma in Dramatic Art ; (i) Examn. for Diploma in Nursing ; (j) Examn. for Diploma in Theory and Practice of Physical Education ; (k) Examn. for Diploma in Theology.

(a) *Univ. Extension Lectures* have been carried on by the Univ. since 1902 (prior to that, since 1876, by the London Society for the Extension of Univ. Teaching). Courses are held, at about 50 centres, on Hist., Lit., Econ. and Social Sc., Study of the Bible, Philos., Psychol., Geography, Painting, Architecture, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular written work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 or 6 lectures) of a *pioneer* or illustrative kind are arranged ; in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in the same general subject or cognate subjects) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art, the Literary, Historical and Comparative Study of the Bible), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study usually covering 4 yrs., and pass the required examns. (Diplomas in Hist., Lit., and Econ. and Soc. Sci. are also awarded on the result of One Year Full-time study ; Diplomas in Econ. and Soc. Sci., and Hist. of Art on the result of 2 yrs.' part-time study).

The *Tutorial Classes for Working-people* extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular written work for the tutor. Certifs. are not awarded.

(b) A *Holiday Course for Foreigners* is held annually in London during four weeks from the middle of July. Special stress is laid upon Phonetic teaching. The course is designed to widen the students' knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, excursions, etc. The total number of students admitted to the course is limited to about 300, and the number in each class to 8. During the 25 years 1904-1914 and 1919-1932 the course was attended by 6225 students from 51 countries.

(c) The *Examination for the Certificate in Religious Knowledge* is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(d) *Examinations for Certificate of Proficiency in English* (i) for foreigners, (ii) for English-born) in Aug. and Dec. or as may be arranged. They are intended to provide evidence, which may not be guaranteed by a teacher's other certificates, of such a practical working knowledge of the English language, written and spoken, and of such acquaintance with Phonetics, as may be of special value for teaching English in foreign countries (Scheme A), or to foreign students (Scheme B).

(e) *Examinations for the Certificates in French, German, Italian, Russian, Spanish, Danish, Norwegian, and Swedish* are held in July or as may be arranged. They are intended primarily for teachers who are not specialists in,

but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(f) The *Examination for the Certificate in Diction and Drama* is held once a year, in July, and is open to Registered Teachers, to Teachers on the Provisional and Associate Registers, and to others specially approved, who have taken a one-yr. course at Training Schools or Institutions approved for the third-yr. course for the Diploma in Dramatic Art.

(g) The *Examinations for the Diplomas in History; Literature—English Lang. and Lit. or General Lit.; Economics and Social Science; History of Art; and the Literary, Historical and Comparative Study of the Bible*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students, or in some cases for a shorter period.

(h) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(i) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students whose general education satisfies the Council and who have studied at least 2 yrs., after attaining the age of 17 yrs., at Training Schools or Institutions where courses have been approved.

(j) The *Examn. for the Diploma in Nursing* is held once a year in October and November, and is open to Registered Nurses (or Nurses eligible to sit for the prescribed examn. for registration) whose general education satisfies the Council, subject to certain specified conditions with regard to Part B of the Examn.

(k) *Examns. for the Diploma in the Theory and Practice of Physical Education* will be held—Part I. twice a yr., in June and Dec., Part II. once a yr., in May, open to students who, after completing their 18th yr., have studied at least 2 yrs. before Part I. and 3 yrs. before Part II. at Physical Training Colleges whose courses have been approved.

(l) *Examn. for the Diploma in Theology*, held once a year, in July, open to students not less than 19 yrs of age who have taken 2 sessions of full-time study or 3 sessions of part-time study at a Theological College recognized for the Diploma.

[Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W. 7.]

**INSPECTION AND EXAMINATION OF SCHOOLS.** A close relationship between examination and inspection has been carefully and continuously developed by the Univ. The County Councils of Middlesex and Surrey have placed their Secondary Schools to the number of 75 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ.

*Inspection* may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as *Examination Inspection*, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection. See App. XXII.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v. App. XXII.) respectively, and the Certifs. I. and II. awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I., in which they form an essential part of the examn.

**PUBLICATIONS.** The following are obtainable from the Univ. of Lond. Press, Ltd., 10-11 Warwick Lane, London, E.C.4 :

*The Calendar*, pubd. in Sept., price 6s. net, postage 9d. *Regns and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 9d. The Courses are pubd. separately for the several Faculties. *The Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d.; *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 7d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 10d. to 2s. 11d. *Libraries of London*: a Guide to Students, by R. A. Rye, Goldsmiths' Librarian, 3rd edition, 10s. *Historical Record of the Univ.*, Second Issue, 1836-1926, contains (a) a Hist. of the Univ.; (b) former Fellows; (c) Donations and Trusts; (d) Graduates; (e) persons to whom prizes, etc., have been awarded; 5s. net., postage 6d.

**Regulations.** The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet. Applications for any of these should be addressed to the Principal.

*O.T.C. Handbook* obtainable from the Secy., 46 Russell Sq, W.C.1.

## THE YEAR 1931-32

**BENEFACTIONS** Mr. Samuel Courtauld has handed over his house at 20 Portman Square, W.1, to the Univ. for the purposes of the Courtauld Institute of Art. See also under Univ. and King's Colls.

**NEW POSTS.** At *Courtauld Institute of Art*: Readership in History of Art. At *Univ. Coll.*: Readership in Modern French Hist. At *King's Coll. Theol. Dept.*: Chair of Pastoral and Liturgical Theol. At *Imperial Coll.*: Readership in Chemical Engineering. At *London Sch. of Econ.*: Stevenson Research Professorship; Tooke Chair of Economic Sci. and Statistics. At *Lister Institute*: Readership in Experimental Pathol. At *Cancer Hosp.*: Readership in Pathological Chem.

**OTHER DEVELOPMENTS.** The London Day Training College has been transferred from the London County Council to the Univ. and is now known as the Institute of Education. The Courtauld Institute of Art opened at 20 Portman Square in Oct. 1932, pending the erection of the new building on the Bloomsbury site. The Royal Army Med. Coll. and the Naval Med. School of the Royal Naval Coll. are no longer Schools of the Univ. On the other hand, 3 members of the staff of the John Innes Horticultural Instn. have been "recognized" as teachers of the Univ. An M.Sc. Degree in Estate Management for

External Students has been instituted. An Academic Diploma in the Hist. of Art and a Diploma in Theol. (University Extension and Tutorial Classes Council) have been instituted. Honours may now be obtained at Commerce Degree Exams. Five additional Post-graduate Studentships are now being offered.

HONORARY DEGREE. *LL.D.*—The Rt. Hon. the Earl of Athlone, K.G., P.C., G.C.B.

STUDENTS. Total admissions in the year 1931 were 12,224, of whom 3398 were exempted from the ordinary matricn. examn. : 535 as graduates of other Univs., 2597 as holders of approved certificates, and 266 after passing the Special Univ. Entrance examn. Of 4567 candidates for first degrees, 2613 were internal and 1954 external. The total number of internal students on the rolls was 11,793, while about 13,000 were registered as external.

UNIVERSITY EXTENSION. Number of Lecture Courses : Sessional (24 or 25 Lectures), 44 ; Terminal (10 or 12 Lectures), 39 ; Short (4 or more Lectures), 33. Terminal entries of Students for all Courses, 8991. Humanities Diploma Students, 515. Number of Univ. Tutorial Classes, 63 ; Students, 1305.

The Holiday Course for Foreigners was again very successful, and there were 284 students, representing 27 nationalities.

VISITORS who lectured in the Univ. : Prof. A. M. Tallgren of Helsingfors (Anthrop.) ; Prof. W. Weber of Halle (Archæol.) ; Prof. G. Morgenstierne of Gothenburg (Comp. Philol.) ; Prof. Dr. W. Stammler of Greifswald (German) ; Prof. J. Bidez of Ghent (Hist.) ; Prof. K. Buhler of Vienna (Psychol.) ; Prof. E. Faral of Paris (Rom. Langs.) ; Prof. H. Kantorowicz of Kiel (Law) ; Dr. Pierre Lepaulle of Paris (Law) ; Prof. Dr. O. Grosser of Prague (Human Anat.) ; Prof. Dr. F. Tobler of Dresden (Botany) ; Prof. M. Polanyi of Berlin (Chem.) ; Dr. Pierre Denis of Paris (Geog.) ; Prof. Dr. H. Cloos of Bonn (Geol.) ; Prof. W. R. Hess of Zurich (Physiol.) ; Dr. W. A. Shewhart of New York (Statist.) ; Dr. F. Silvestri of Portici (Zool.) ; Mr. E. C. Crittenden of Washington (Elect. Engin.) ; Prof. R. Jasinski of Lille (French) ; Prof. L. Cazamian of Paris (Engl.).

# INCORPORATED COLLEGES

## UNIVERSITY OF LONDON,

## UNIVERSITY COLLEGE

Address—Gower St., W.C. 1.    Telegrams—University College, London.

CHAIRMAN OF THE COLLEGE COMMITTEE—Prof. Sir JOHN ROSE BRADFORD, Bt., K.C.M.G., C.B., C.B.E., D.Sc., M.D., F.R.C.P., F.R.S.

VICE-CHAIRMAN—The Rt. Hon. LORD MESTON, K.C.S.I., V.D., LL.D., Hon. M.D. Zur.

TREASURERS—A. DIGBY BESANT, B.A., F.I.A.; The Rt. Hon. LORD LOCH, C.B., C.M.G., D.S.O., M.V.O.

PROVOST—ALLEN MAWER, M.A., Litt D. Camb., F.B.A.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY—C. O. G. DOUIE.

SENIOR TUTOR—H. J. HARRIS, B.A.

TUTOR TO WOMEN STUDENTS—EDITH GOODYEAR, B.Sc.

LIBRARIAN—J. A. WILKS, M.A.

### PROFESSORS, LECTURERS, ETC.

- |  |  |
|--|--|
| <p><i>Anatomy</i><br/>         Smith, G. Elliot, M.A. Camb.,<br/>             Litt.D. Manc., M.D., M.S.<br/>             Syd., D.Sc. Belf., Ch.M.,<br/>             F.R.C.P., F.R.S.    Prof.<br/>         Hill, J. P., D.Sc. Edin., Sc.D. Dub.,<br/>             F.R.S.    Prof (Embryol.).<br/>         Harris, H. A., D.Sc., M.B., B.S.,<br/>             B.Sc. Wales.<br/>             Prof. (Clin. A.) and<br/>             Curator of Museum.<br/>         Kirk, J., M.B., Ch.B. Edin.,<br/>             F.R.C.S.E.    Sr. Demr.<br/>         Goldby, F., B.A., M.B., Ch.B.<br/>             Camb    Sr. Demr.<br/>         Young, M., M.D. Glas.    Lectr.<br/>         Fielding, Una, M.B., Ch.M.<br/>             Lectr. and Demr.<br/>         4 Hon. Lectrs (2 Radiol., 1 Cytol.,<br/>             1 Ethnol.) and 2 Hon. Re-<br/>             search Assts.<br/>         2 Demrs., 1 Hon. Demr., and 1<br/>             Senr. Asst., 1 Hon. Asst.</p> | <p><i>Anthropology, Cultural</i> [Reader.<br/>         Perry, W. J., M.A. Camb., D.Sc.<br/>         1 Hon. Lectr.<br/> <i>Archæology</i>, v. also Egyptol.<br/>         Ashmole, Bernard, M.A., B.Litt.<br/>             Ox.    Yates Prof.<br/>         Gardner, E. A., Litt.D Camb. and<br/>             Dub.<br/>             Emer. Prof. and Yates Lectr.<br/>         Wheeler, R. E. M., M.A., D.Lit.<br/>             (Brit. Archæol.) Lectr.<br/>         1 Hon. Lectr. (Indian Archæol.).<br/> <i>Architecture</i>, v. p. 137<br/> <i>Art (Fine Arts)</i><br/>         Schwabe, R.    Slade Prof.<br/>         Borenius, Tancred, D.Lit., Ph.D.<br/>             Helsing.<br/>             Durning-Lawrence Prof.<br/>             (History of Art).<br/>         Bayes, W., A.R.W.S.    Lectr.<br/>         9 Assts. and 1 Demr.<br/> <i>Astronomy</i>, v. Maths.</p> |
|--|--|



*Bio-Chemistry*, v. Physiol.*Botany*

Hill, T. G., D.Sc., A.R.C.S.

Prof. (Plant Physiol.) and

Dir. of Labs.

Salisbury, E. J., D.Sc.

Quain Prof.

Haas, P., Ph.D. Freib., D.Sc.

Reader (Plant Chem.).

Cutting, E. M., M.A. Camb.

Sr. Lectr.

Russell-Wells, Barbara, Ph.D.

Lectr.

Jane, F. W., B.Sc.

Lectr.

1 Asst. Lectr., 1 Quain Studt.

*Celtic*

Flower, R. E., B.A. Ox., D.Litt.

N.U.I.

Hon. Lectr.

*Chemical Engineering*

Gibbs, W. E., D.Sc. Liv.

Ramsay Prof.

Mullen, J. P., M.Eng. Liv. Lectr.

Donald, M. B., M.Sc. Mass. Inst.

Technol., A.R.C.S. Lectr.

1 Hon. Lectr.

*Chemistry*

Donnan, F. G., C.B.E., M.A.

N.U.I., LL.D. Edin. and St.

And., Ph.D. Leip., D.Sc. Liv.

and Belf., F.I.C., F.R.S.

Prof. and Dir. of Labs.

Ingold, C. K., D.Sc., F.R.S. Prof.

Collie, J. Norman, Ph.D. Würz.,

LL.D. Glas., D.Sc. Liv. and

Belf., F.R.S.

Emer. Prof. and Hon. Lectr.

Brady, O. L., B.A. Cape, D.Sc.,

F.I.C. Reader (Org. C.).

Evans, H. J., B.Sc.

Sr. Lectr. (Med. Students).

Terrey, H., B.Sc.

Sr. Lectr. (Inorganic Analyt.).

Bailey, C. R., B.A., M.Sc.

Sr. Lectr.

Lectrs. :

Gilbert, L. F., B.Sc.

Day, J. N. E., M.Sc., A.R.C.S.

Topley, B., M.A. Ox.

Le Fèvre, R. J., M.Sc., Ph.D.

Walker, O. J., Ph.D. Edin.

Goodeve, C. F., M.Sc. Mannt.

4 Hon. Lectrs.

2 Asst. Lectrs.

4 Hon. Research Associates.

*Classics*

[Prof. (Greek).

Smiley, M. T., M.A. Dub.

Butler, H. E., M.A. Ox.

Prof. (Latin).

Solomon, L., M.A. Ox. Sr. Lectr.

Vaughan, Elinor J., M.A. Lectr.

Lockwood, J. F., M.A. (Gk.) Lectr.

M'Lellan, R. D., B.A. (Lat.) Lectr.

*Danish*, v. Scand.*Dutch History*

Geyl, P., Lit.D. Leyd. Prof.

*Dutch Lang. and Lit.*

Weevers, Th., Litt.D. Gron. Lectr.

*Economics*, v. Polit. Econ.*Economic Geography*, v. Geog.*Egyptology and Coptic*

Petrie, Sir Flinders, D.C.L. Ox.,

LL.D. Aberd., F.B.A., F.R.S.

Edwards Prof.

Murray, Margaret A., D.Lit.

Asst. Prof.

1 Hon. Asst.

*Embryology*, v. Anatomy*Engineering, Electrical*

Clinton, W. C., B.Sc., M.Inst.E.E.

Pender Prof.

Barlow, H. E. M., B.Sc., Ph.D.

Senr. Lectr. (Electro-

Communications).

Bayliss, C. W., M.A. Camb.

Lectr. (Electrical Ma-

chinery).

1 Demr.

*Engineering, Civil and Mechan-**ical*, v. also next heading

Coker, E. G., M.A. Camb., D.Sc.

(Eng.) Edin., M.Inst.C.E.,

F.R.S. (Dean)

Kennedy Prof. and Dir.

of Labs.

The Prof. of Munic. Eng.

Reader (Surveying).

Lloyd-Evans, B J., M.Sc.,

M.I Mech E Asst. Prof.

Collins, H. J., M.Sc. (Eng) Birm.

Asst. Prof. (Civil and Munic.).

Davidge, H. T., B.Sc., M.Inst.E.E.

Sr. Lectr.

Webb, A. E., B.Sc. Sr. Lectr.

Cookson, A. C., M.Inst.C.E.

Lectr. (Railway E.).

Cunningham, Brysson, D.Sc. Belf.,

B.E. N.U.I., M.Inst.C.E

Lectr. (Waterways, Har-  
bours, and Docks).

Capper, P. L., M.Sc. Lectr.

2 Sr Assts.

### *Engineering, Municipal*

Ormsby, M T. M., A.R.C.S. Dub ,

M.Inst.C.E.I. (Reader in Sur-  
veying also) Chadwick Prof.

Delafield, M. E., M.B., B.Ch.,

D.P.H. Spl. Lectr. (Hygiene).

Hart, C. A., B.Sc. Lectr.

### *English*

Chambers, R. W., M.A., D.Lit.,

F.B.A. Quain Prof.

Sisson, C. J., M.A. Edin., D.ès L.

Dijon Lord Northcliffe Prof.

Greg, W. W., Litt D Camb ,

F.B.A. Hon. Lectr. (Bibliogr) ;

Blackman, Elsie, M.A. Sr. Lectr.

Sutherland, J. R., M.A. Aberd.,

B.Litt. Ox. Sr. Lectr.

Batho, Edith C., M.A. Sr. Lectr.

Baker, E. A., M.A., D.Lit. Lectr.

Hitchcock, Elsie V., Ph.D., D.Lit.

Lectr.

Smith, A. H., Ph.D. Leeds Lectr.

1 Senr Asst., 1 Asst. Lectr., 1

Quain Studt.

### *Eugenics and Applied Statistics,*

v. p. 136

### *French, v. also Hist.*

Brandin, L. M., M.A., Ph.D.

Greifs. Fielden Prof.

Jeaffreson, J. W., M.A. Sr. Lectr.

Stéphan, E. M. Sr. Lectr.

Schlumberger, Beatrice J., M.A. ,,

Starke, Dora, M.A.

Lectr.

Tancock, L. W., B.A., Ph.D. Lectr.

1 Asst

### *Genetics*

Haldane, J. B. S., M.A. Camb ,

F.R.S. Prof

### *Geography*

Fawcett, C. B., D.Sc., B.Litt. Ox.

Prof. (Econ. and Regl. G.).

The Prof of Munic. Engin.

Reader (Surveying).

Buchanan, R. O., M.A. N.Z., B.Sc.

(Econ.), Ph.D. Lectr.

Dickinson, R. E., M.A. Leeds Lectr.

Hart, C. A., B.Sc.

Lectr. (Surveying).

1 Asst. Lectr.

### *Geography, Physical, Geology and*

### *Mineralogy*

King, W. B. R., O.B.E., M.A.

Camb. Yates-Goldsmid Prof.

Chubb, L. J., M.Sc. Lectr.

Goodyear, Edith, B.Sc.

Hon. Lectr.

1 Sr. Asst , 1 Demr.

### *German*

Robertson, J. G., M.A., Litt.D.

Dub, B.Sc. Glas., Ph D. Leip.,

F.B.A. Prof.

Willoughby, L. A., M.A., D.Litt.,

Ph.D. Vienna Prof.

Perrett, W., B.A., Ph.D. Jena

Reader.

Norman, F., M.A. Reader.

2 Assts.

### *Hebrew, v. also Semitic*

..... Goldsmid Prof.

Loewe, H. M. J., M.A. Camb.

Goldsmid Lectr.

### *History, v. also Art and Medicine*

Neale, J. E., M.A. Liv.

Astor Prof. (English H.).

Davis, Eliza Jeffries, M.A., F.S.A.

Reader (London H.).

Williams, C. H., M.A. Camb.

Reader (Constl. H.).

Alexandre, A.

Prof. (Mod. French H.).

- Bellot, H. Hale, M.A. Ox.  
     Commonwealth Fund  
     Prof. (Amer. H.).  
 Baynes, Norman H., M.A. Ox,  
     F.B.A.  
     Prof (Byzantine H.) and  
     Director of Evening  
     School of H.  
 Cary, M., M.A., D.Litt. Ox.  
     Reader (Ancient H.).  
 Adams, W., B.A. Lectr.  
 3 Asst. Lectrs., 1 Asst.
- History and Method of Science*  
 Wolf, A., M.A. Camb., D.Lit.  
     Prof. (Logic and Scientific  
     Method).  
 McKie, D., B.Sc., Ph.D. Lectr.  
 2 Assts.
- Italian*  
 Gardner, E. G., M.A., Litt.D.  
     Camb, F.B.A. Prof  
 Pellizzi, C, Dr Jur. Pisa, D.Lit.  
     Reader and Barlow Lectr.  
 Cippico, Senator A., Dr.Jur. Graz  
     Hon. Lectr. (Modern I. Lit.).  
 Bassani, A. M., Sc D. Lectr.
- Journalism* [Tutor.  
 Solomon, Lawrence, M.A. Ox.
- Law*, v. p. 184
- Librarianship*  
 Baker, E. A., M.A., D.Lit.  
     Director and Lectr.  
 Wilks, J. A., M.A. Asst. Dir.  
     Lectrs.:  
 Esdaile, Arundell, M.A. (Biblio-  
     graphy).  
 Sayers, W. C. Berwick (Classifica-  
     tion).  
 Headicar, B. M. (Lib. Organiza-  
     tion).  
 Doubleday, W. E. (Lib. Routine).  
 Acomb, H. W., M.A. Camb.  
     (Cataloguing and Indexing).  
 Galbraith, V. H., M.A. (Palæog.  
     and Archives).  
 Chambers, Prof. R. W. (Literary  
     History).
- Mathematics (Applied) and  
 Mechanics*  
 Filon, L. N. G., C.B.E., B.A. Camb.,  
     M.A., D.Sc., F.R.S.  
     Goldsmid Prof. and Dir.  
     of Observatory.  
 The Senior Lectr. (Davidge, H. T.)  
     in Civil and Mech. Engin.  
 Jessop, H. T., M.Sc. Sr. Lectr.  
 Harris, H. J., B.A. Sr. Lectr.  
 Gregory, C. C. L., M.A. Camb.,  
     F.R.A.S.  
     Sen. Lectr. (Astronomy)  
     and Wilson Observer.  
 Stevenson, A. C., M.Sc. Lectr.  
 1 Asst, 1 Research Asst., and 1  
     Hon. Asst.
- Mathematics (Pure)* [Astor Prof.  
 Jeffery, G. B., M.A., D.Sc., F.R.S.  
 Wren, T. L., M.A. Camb.  
     Reader (Geom.)  
 Harris, H. J., B.A. Sr. Lectr.  
 Bosanquet, L. S., M.A. Ox.,  
     D.Phil. Lectr.  
 Estermann, T., D.Sc. Lectr.  
 2 Asst. Lectrs., 3 Demrs.
- Medicine, History of*  
 Singer, C., M.D., D.Litt. Ox.,  
     F.R.C.P. Prof.  
 3 Hon. Research Assts.
- Norwegian*, v. Scand.
- Pharmacology*  
 Verney, E. B., M.A., M.B., B.Ch.  
     Camb., F.R.C.P., M.R.C.S.  
     Prof.  
 Ing, H. R., M.A., D.Phil. Lectr.  
 1 Asst., 1 Demr.
- Philology*  
 Thomas, F. W., C.I.E., M.A.  
     Camb., Ph.D. Mun., F.B.A.  
     Lectr. (Comparative P.).
- Philosophy*  
 Macmurray, J., M.A. Ox. and  
     Glas.  
     Grote Prof (Philos. of  
     Mind and Logic).  
 Keeling, S. V., M.A., B.A. Camb.,  
     D. ès L. Montp. Senr. Lectr.

*Phonetics*

Jones, Daniel, M.A. Camb. Prof.  
 Perrett, W., B.A., Ph.D. Jena  
 Reader (German).

Sr. Lectrs.:

Armstrong, Liliat E., B.A. Leeds  
 Firth, J. R., M.A. Leeds  
 Jones, S., B.Sc. Wales  
 Superint. of Lab.  
 Lloyd-James, A., M.A. Camb.

Hon. Lectr.

Coustenoble, Hélène Lectr.  
 Quick, Edith E., B.A. Lectr.  
 Davies, Hyacinth M. Sr. Asst.  
 Lund, Sophie C. Sr. Asst.  
 2 Assts.

*Physics*

Andrade, E. N. da C., D.Sc., Ph.D.  
 Heid.

Quain Prof. and Dir. of  
 Labs.

Wood, D. Orson, M.Sc., A.R.C.S.,  
 F.Inst.P.

Sr. Lectr. and Depy. Dir.  
 of Labs.

Bates, L. F., B.Sc. Bris., Ph.D.  
 Camb., F.Inst.P. Reader.

Eumorfopoulos, N., B.Sc.  
 Hon. Research Asst.

Gibbs, R. E., D.Sc. Lectr.  
 Chalkin, F. C., B.Sc., Ph.D.

Lectr.  
 Brown, G. B., M.Sc. Lectr.  
 Brown, R. C., B.Sc. Lectr.

2 Asst. Lectrs.

*Physiology*

Evans, C. A. Lovatt, D.Sc.,  
 F.R.C.P., F.R.S.

Jodrell Prof. and Dir. of  
 Labs.

Drummond, J. C., D.Sc.  
 Prof. (Bio-Chem.).

Hill, A. V., O.B.E., M.A., Sc.D.  
 Camb., LL.D. Edin., F.R.S.

Foulerton Prof. (Roy.  
 Soc.) and Univ. Prof.

Gilding, H. P., M.A., B.M., B.Ch.  
 Ox. (Expl. P.) Reader.

Kerridge, Phyllis M. Tookey,  
 M.Sc., Ph.D. Lectr.

Newton, W. H., M.B., B.Ch., M.Sc.  
 Manc. Lectr.

Marrian, G. F., D.Sc. Lectr.  
 Stella, G., M.D. Lectr.

Barcroft, H., B.A., M.R.C.S.,  
 L.R.C.P. Lectr.

Lythgoe, R. J., M.A., M.D.  
 Hon. Lectr.

1 Hon. Research Assoc.  
 2 Assts., 2 Hon. Research Assts.,  
 8 Hon. Assts.

*Political Economy*

..... Prof.  
 Comrie, L. J., M.A., Ph.D. Camb.  
 Newmarch Lectr.

Hall, N. F., B.A. Ox., A.M.  
 Princeton Senr. Lectr.

Gaitskell, H. T. N., B.A.  
 Lectr. and Tutor to

Higher Civ. Service  
 Students.

1 Asst. Lectr.

*Psychology*

Burt, C., M.A., D.Sc. Prof.  
 Flugel, J. C., B.A. Ox., D.Sc.

Asst. Prof.  
 Philpott, S. J. F., D.Sc. Lectr.

Hopkins, Pryns, Ph.D., M.A.  
 Hon. Lectr.

3 Research Assts., 1 Hon. Research  
 Asst.

*Scandinavian Studies*

Robertson, Prof. J. G. Director.  
 Helweg, J. H., cand. mag. Copen-

hagen  
 Queen Alexandra Lectr.

(Danish).  
 Gröndahl, I. C., cand. mag. Oslo

W. P. Ker Lectr. (Norwegian).  
 Mesterton, E., fil. mag. Uppsala

Crown Princess Louise  
 Lectr. (Swedish).

*Semitic (North) Epigraphy*

Loewe, H. M. J., M.A. Camb.  
 (Goldsmid Lectr. in Hebrew)

Lectr.

<i>Statistics</i> , v. p. 136	<i>Town Planning</i> , v. p. 137
<i>Surveying</i> , v. Engineering, Munic.	<i>Zoology &amp; Comparative Anatomy</i> Watson, D. M. S., M.Sc. Manc., D.Sc., F.R.S. Jodrell Prof.
<i>Tibetan</i>	Fraser, Elizabeth, D.Sc. Reader.
Thomas, F. W., C.I.E., M.A.	Wells, G. P., M.A. Lectr.
Camb., Ph D. Mun., F.B.A.	3 Asst. Lectrs., 1 Res. Asst., 1 Reader. Aquarium Asst.

## GENERAL INFORMATION

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

**LIBRARIES** (containing over 318,500 bound vols. and pamphlets): (1) General, including Barlow (Dante), Carnegie (American History and Institns.), Field (Fine Art), Morris, Ricardo (Polit. Econ.), Rotton, Strong (Oriental), and Whitley Stokes (Celtic) collections, and the Bentham MSS.; (2) Science, including Ramsay (Chem.), Grant (Zool.), and Graves (Maths.), collections, the Library of the Geologists' Assn., the books deposited by the London Mathematical Soc. and the Malacological Soc., and an exceptionally complete collection of scientific journals; (3) Med. Sciences, including Sharpey (Anat. and Physiol.) collection; (4) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol. (Edwards), English, French, German, Geog., Italian, Hist., Jewish Hist. and Antiq. (Mocatta), Librarianship, Hist. of London, Philos. and Psychol., Phonetics, and Scandinavian, incl. Viking Society Library; (5) Law Library, including Blackburn and Quain collections.

**MUSEUMS.** Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral, Vulcanological (Johnston-Lavis Collection), Zool. Two Astron. **OBSERVATORIES.**

**FACULTIES.** Arts, Laws, Science, Engineering, Medical Sciences. Deans: Prof. MacMurray, Prof. Sir Maurice Amos, Profs. T. G. Hill, Coker, Verney.

**COURSES.** Arts, Laws, Science, Eng., Medical Prelim. and Intermediate. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. The Engineering Faculty includes Depts. of Civil and Mechanical (with sub-depts. of Graphics and Surveying), Elec. Eng. and Munic. Eng. and Hygiene. A Dipl. in Eng. is given after a 3 yrs.' course, and Certifs. in Eng. (2 yrs.); a Dipl. in Archit. (5 yrs.) and a Certif. in Archit. (3 yrs.); a Certif. in Decoration (3 yrs.); a Dipl. in Chem. Eng. (3 terms); a certif. in Town Planning (3 terms); a certif. in Egyptology (2 yrs.).

All departments of the College are available for **POST-GRADUATE AND RESEARCH WORK**, and the respective Profs. are always prepared to advise students wishing to undertake research.

**DEPARTMENT OF APPLIED STATISTICS.** See Francis Galton Laboratory, p. 136 below.

**THE BARTLETT SCHOOL OF ARCHITECTURE** was established by the combination of the Archit. Schools of University and King's Colleges. See p. 137 below.

**FOREIGN STUDENTS** are admitted to the College on the same terms as British.

They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing. Courses in Aspects of British Life and Civilization take place *throughout the session*. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; 7 Fellows from overseas are now working there.

**FEES.** Composition for 3 sessions' course in Arts—98 to 105 gs.; 5 sessions' course in Archit.—228 gs.; 3 sessions' course in Science—135 to 140 gs.; Engin.—168 gs.; Econ.—26 gs. per session; Med. for 1st examn.—35, 2nd—80 gs.; Laws—Day 26 gs., Evening 20 gs. per session; Fine Art—28 gs. per session; for Higher Civil Service—50 gs. (35 gs. to those who have taken undergraduate course at the College).

**SCHOLARSHIPS, ETC.** Annual value, about £4000 (including £1542, Entrance Scholarships). Extra Bursaries amounting to £342 were granted in 1931-32. In addition, Exhibition Bursaries (towards fees) amounting to £325 were granted.

**RESIDENCE.** A Hall for 68 men at Ealing, 2 to 2½ gns. a week. One for women (112) in Malet Street, W.C.1, 90 to 114 gns. per Coll. session of about 33 weeks.

**PUBLICATIONS.** *Calendar* (Oct.), 3s. 6d.; *Annual Report*; *University College Magazine*; the various Faculty and Departmental Prospectuses; *Prospectus* of post-graduate courses and arrangements for research.

## THE YEAR 1931-32

**BENEFACTIONS.** The Rockefeller Foundation of New York, £88,000 for the development of the Dept. of Zool. and Comp. Anat.; the Court of the Univ., £30,000 for its better accommodation; the late Sir Gregory Foster: (i.) gifts for the English Section of the Library, (ii.) a freehold cottage at Chiddingfold, Sussex, in memory of the late Lady Foster, to be used in extending Winifred Smith Memorial for the benefit of women staff and students; Drapers' Company, £500 for Biometrics; per Italian Ambassador, £300 for Italian; Rhodes Trust, £200 towards Chair of Constitutional Law; Chadwick Trust, £200 for Munic. Eng. and Hygiene; Dr. G. M. Morant, £60 for Dept. of App. Stats. and Eugenics.

**NEW BUILDINGS.** The Ramsay Memorial Laboratory of Chemical Engineering in occupation of new building. The large property to the south of the Coll., hitherto known as Upper Gower Mews, acquired with a view to providing better accommodation, in the first instance for Zool. (see above), to be followed by other depts.

**NEW POSTS.** Professorships of Clinical Anat. (held jointly with Univ. Coll. Hosp. Med. Sch.), Hist. of Med., and Byzantine Hist.; Readerships in Constitutional Hist., Eugenics, and Zool.; Hon. Lectureship in Bibliography (Dept. English).

**EXTRA-MURAL WORK.** The Coll. does not undertake extra-mural work, but accommodation was provided in the Session 1931-32 for weekly meetings of 6 Univ. Tutorial Classes and of 2 Univ. Extension Courses. Upwards of 14,000 persons attended the various Public Lectures given in the late afternoon or evening.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Among those who delivered Public Lectures at the Coll. were: Prof. J. Bidez (Univ. Ghent—Hist.),

Prof. Karl Bühler (Univ. Vienna—Psychol.), Prof. A. J. Clark (Univ. Edinburgh—Pharmacol.), Prof. Edmond Faral (Collège de France—Lit.), Prof. Otto Grosser (Univ. Prague—Anat.), Prof. W. R. Hess (Univ. Zurich—Physiol.), Prof. G. L. Kittredge (Harvard Univ.—Shakespeare), Dr. Pierre Lepaulle (Paris—Law), Dr. Joseph Needham (Univ. Camb.—Hist. Sci.), Prof. B. Ohlin (Univ. Stockholm—Econ.), Prof. W. Stammerl (Univ. Greifswald—Lit.), Prof. A. M. Tallgren (Univ. Helsingfors—Anthropol.), Sir Joseph Thomson (Univ. Camb.—Physics), Prof. F. Tobler (Dresden—Bot.), Prof. G. M. Trevelyan (Univ. Camb.—Rickman Godlee Lecture, Nature Study), Prof. W. Weber (Univ. Halle—Roman Hist.), Dr. A. H. Winsnes (Univ. Oslo—Lit.).

**RETIREMENTS.** Prof. J. E. G. de Montmorency (Comp. Law); Mr. A. Sabonadière (Indian Law); Dr. H. Hirschfeld (Hebrew).

**RESIGNATIONS.** Prof. Paul Vaucher (Mod. French Hist.), to be Pt.-time Prof. at Lond. Sch. Econs.; D. T. Harris (Physiol.), to be Prof. Lond. Hosp. Med. Coll.; Ida C. Ward (Phonetics), to be Lectr. at Sch. of Oriental Studies; Axel M. Wijk (Swedish); S. Barratt (Chem.); F. R. Winton (Physiol.), to be Lectr. Univ. Camb.

**DEATHS.** Sir Gregory Foster, Bt., Head of College 1904–1929, Vice-Chancellor of Univ. 1928–30; Mr. A. S. West, Senior Fellow; Mr. W. R. B. Prideaux, Lectr. Cataloguing; Miss Mary Levin, Hon. Asst., Anat. and Embryol.; Dr. Winifred Wright, Asst., Pharmacol.

**IMPORTANT EVENTS.** In Nov. 1931, H.R.H. Prince George opened the new Ramsay Memorial Laboratory of Chemical Engin.; in Feb. 1932, Mr. Stanley Baldwin delivered Alfred Fripp Memorial Lecture at the Coll.; on June 6, 1930, celebration of Centenary of Jeremy Bentham—lecture by Mr. C. K. Ogden of King's Coll., Camb.; Physiol. Section of Centenary Meeting of Brit. Ass. met at the Coll., Psycholog. Section provided with demonstration, some members of Education Section received and exhibits arranged.

**STUDENTS.** Full-time: total, 2008, including 250 graduates. Part-time: total, 1030, including 215 graduates.

**DEGREES OBTAINED.** B.A., 115; B.A. (Archit.), 6; LL.B., 13; B.Sc., 101; B.Sc. (Econ.), 14; B.Sc. (Engin.), 33; D.Litt., 3; Ph.D. (Arts), 8; M.A., 6; LL.M., 1; D.Sc., 9; Ph.D. (Sci.), 35; M.Sc., 22; Ph.D. (Econ.), 1; Ph.D. (Engn.), 1.

# UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

Address—Strand, W.C.2.

CHAIRMAN OF THE DELEGACY—LORD BLANESBURGH, G.B.E., M.A.,  
LL D. Aberd.

VICE-CHAIRMAN—A. J. ALLEN, M.A. Ox.

TREASURER—SIR EDWARD TROUP, K.C.B., K.C.V.O., LL.D. Aberd.

PRINCIPAL—W. R. HALLIDAY, M.A. Ox., LL.D. Glas.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY—S. T. SHOVELTON, M.A. Ox.

TUTOR TO WOMEN STUDENTS—DOROTHY BRITAIN, M.A. Manc.

LIBRARIAN—R. HUTTON, M.A. Liv.

## PROFESSORS, LECTURERS, ETC.

*Anatomy, Descrip. and Surgical*  
Blair, D. MacCallum, M.B., Ch.B.  
Glas.

Prof. (A. and Anthropol.).  
Davies, F., M.D., B.S. Reader.  
Compton, A., F.R.C.S.

Lectr. (Applied A.).  
Coghill, Violet A. P., M.B., Ch.B.  
Edin. Lectr.  
Wakeley, C. P. G., F.R.C.S. Lectr.  
2 Demrs.

*Anthropology*, v. Anat.

*Art, Ecclesiastical*  
Dearmer, Rev. P., D.D. Ox. Prof.

*Assyriology*  
Gadd, C. J., M.A. Ox. Hon. Lectr.  
Smith, S., M.A. Camb. Hon. Lectr.

*Bibliography*, v. English

*Biology*, v. Zool.

*Botany and Plant Biology*  
Gates, R. Ruggles, M.A., LL.D.  
Mt. Allison, B.Sc. McG., Ph.D.  
Chic., F.R.S. Prof.

Schwartz, E. J., M.A., D.Sc. Lectr.  
Latter, Margaret J., B.Sc., Ph.D.  
Asst. Lectr.

Catcheside, D. G., M.Sc.  
Asst. Lectr.  
1 Demr.

*Chemical Engineering*, v. Chem-  
istry and Engineering

*Chemistry* [Daniell Prof.  
Smiles, S., O.B.E., D.Sc., F.R.S.  
Allmand, A. J., D.Sc. Liv., F.R.S.  
Prof.

Robson, W., Ph.D. Edin., D.Sc.  
(Bio-Chem.) Reader.

Cremer, H. W., M.Sc.,  
M.I.Chem.E. Senr. Lectr.

Salmon, C. S., M.Sc. Bris. Lectr.  
McClelland, E. W., D.Sc. Belf.  
Ph.D. Durh., A.I.C. Lectr.  
Ward, L. Singlehurst, B.Sc. Lectr.  
Fairbourne, A., M.A. Ox., M.Sc.  
Manc. Hon. Lectr.

Asst. Lectrs. :  
Dolley, L. G. F., B.Sc., Ph.D.  
Gregg, S. J., B.Sc., Ph.D.  
Roberts, K. C., M.Sc., Ph.D.  
2 Demrs.

*Classics*, v. also History  
Thomson, J. A. K., M.A. Aberd.,  
B.A. Ox. Prof.



Knight, Clara M., D.Lit. Reader.  
 Hall, E. B., M.A. Senr. Lectr.  
 Handford, S. A., M.A. Ox. Lectr.  
 Paul, Agnes S., M.A., B.D. Lectr.  
 Bevan, E. R., O.B.E., M.A., D.Litt.  
 Ox., LL.D. St. And.  
 Lectr. (Hellenistic History and Literature).

#### *Education*

Wilson, J. Dover, M.A., Litt.D.  
 Camb, F.B.A. Prof.  
 Young, G. W., M.A. Camb.  
 Reader.  
 Titley, A. F., B.Sc. Brist., D.Phil.  
 Ox. Sr. Lectr.  
 Chaplyn, Marjorie A., M.A., Edin,  
 D. de l'Univ. Paris Lectr.  
 Bell, Clarissa C., B.A. Lectr.  
 Ward, H., C.B.E., M.A. Ox.  
 Hon. Lectr.  
 Smith, H. T., B.A. Ox  
 Asst. Lectr

Williams, Emily M., B.A.  
 Asst. Lectr.  
 Twentyman, A. E., B.A.  
 Tutor (Higher Degree Students).

#### *Engineering, Civil*

Jameson, A. H., M.Sc. Manc.,  
 M.Inst.C.E. Prof.  
 Lobban, C. H., D.Sc. (Eng.) Glas.  
 Reader.  
 White, C. M., B.Sc. (Eng.), Ph.D.  
 Lectr.

#### *Engineering, Electrical*

Catterson-Smith, J. K., M.I.E.E.,  
 M.Eng. Liv. Siemens Prof.  
 Robertson, F. Steell, M.I.E.E.  
 Sr. Lectr.  
 Clarke, H. M., M.Sc. Lectr.

#### *Engineering, Mechanical*

Cook, Gilbert, D.Sc. Manc.,  
 M.I.M.E. Prof.  
 Davies, S. J., M.Sc. Durh, Ph.D.  
 Reader.  
 Giffen, E., M.Sc. Belf. Lectr.

#### *English*

Reed, A. W., M.A., D.Lit. Prof.  
 Routh, H. V., M.A. Camb., D.Lit.  
 (E. Lit.) Reader.

Harrison, G. B., M.A. Camb,  
 Ph.D.

(E. Lit., also Tutor to  
 Journalism Students)  
 Reader.

Ingram, E. Gwendolen, M.A.  
 (E. Philology) Senr. Lectr.  
 Day, Mabel, M.A., D.Lit.  
 (E. Philology) Lectr.

Isaacs, J., M.A. Ox.  
 (E. Lit.) Lectr.  
 Garmonsway, G. N., M.A. Camb.  
 (E. Lit.) Lectr.

McKerrow, R. B., Litt.D. Camb,  
 F.B.A.  
 (E. Bibliography) Hon. Lectr.  
 Barrett, W. P., M.A., Ph.D. Camb.  
 Asst. Lectr.

Mack, Frances M., B.A.  
 Asst. Lectr.  
 1 Asst.

#### *French*

Saurat, D., D. ès L. Paris Prof.  
 Stone, Louise W., M.A.  
 (Romance Philol.) Reader.  
 Hughes, R. W., M.A. Ox., M.A.  
 Syd., Dip. d'E.S. Paris, D.Lit.  
 Lectr.

Jones, R. A., M.A. Lectr.  
 Vigne, J. Lectr.  
 McKechnie, Margaret M. McL.,  
 M.A. Glas., L. ès L.  
 Asst. Lectr.

6 Assts.

#### *Geography*

The Profs. of Botany, Geol., Civil  
 Engin., Imperial Hist., Zool.  
 (in conjunction with staff of  
 London School of Economics).  
 Wood, H. J., B.Sc., Ph.D.  
 (Historical Geog.) Lectr.

#### *Geology*

Gordon, W. T., M.A. Camb, M.A.,  
 D.Sc. Edin., F.G.S. Prof.  
 Wells, A. K., D.Sc., F.G.S. Reader.  
 Wooldridge, S. W., D.Sc., F.G.S.  
 Lectr.

1 Demr.

*German*

Atkins, H. G., M.A., D.Lit. Prof.  
 Rose, W., M.A. Birm., Ph.D.

Reader.

Norman, F., M.A. Reader.

Haltenhoff, A. G. Lectr.

Stuart, Hannah S. M., B.A., Ph.D.

Asst. Lectr.

1 Asst.

*Greek, Modern, and Byzantine  
 Hist.* [Koraes Prof.]

Marshall, F. H., M.A. Camb.

*Hebrew*

Hollis, Rev. F. J., D.D. Lectr.

*Histology*, v. Physiol.*History*, v. also Classics, Greek

Hearnshaw, F. J. C., M.A. Camb.,  
 LL.D. Dub. Prof.

Newton, A. P., B.Sc., M.A., D.Lit.,  
 F.S.A.

Rhodes Prof. of Imperial H.

Warmington, E. H., M.A. Camb.

(Ancient H.) Reader.

Cronne, H. A., M.A. Belf. and Ox.

(Mediæval H.) Lectr.

Driver, C. H., M.A.

(Const. Hist.) Lectr.

Page, Frances M., M.A., Ph.D.  
 Camb. Asst. Lectr.

Jenkins, Rev. C., M.A., D.D. Ox.,  
 F.S.A.

Prof. (Eccl. H.) and

Reader (Greek and

Latin Palæog.).

Jenkinson, Hilary, M.A. Camb.,  
 F.S.A.

(Diplomatic and English

Archives) Reader.

Steed, H. Wickham, LL.D. Strasb.

(Central Europ. Hist.) Lectr.

1 Asst.

*Italian*

Vincent, E. R. P., M.A. Ox. Lectr.

*Journalism*, v. English

*Law*, v. p. 184

*Materia Medica and Pharmacology*

Inchley, O., M.A., M.D. Camb.

Lectr.

*Mathematics*

Jolliffe, A. E., M.A. Ox. Prof.

Temple, G. F. J., Ph.D., D.Sc.

Prof.

Dale, J. B., M.A. Camb.,

Asst. Prof.

Shovelton, S. T., M.A. Ox. Lectr.

Henderson, J., M.A., B.Sc. Edin.,  
 Ph.D. Lectr.

Combridge, J. T., M.A. Camb.,  
 M.Sc. Lectr.

Edwards, B. A., M.Sc. Wales.

Lectr.

Davies, E. T., M.Sc. Wales, Ph.D.

Rome Asst. Lectr.

Wright, E. M., B.A., D.Phil. Ox.

Asst. Lectr.

*Military Science*

Maurice, Maj.-Gen. Sir Frederick

B., K.C.M.G., C.B., LL.D.

Camb., D.Lit. Prof.

*Palæography*, v. Hist.*Pharmacology*, v. Mat. Med.*Philology*, v. English, French*Philosophy*, v. also Psych.

Hallett, H. F., M.A., D.Litt. Edin.

Prof.

Hanson, Rev. R., M.A. Ox., B.D.

(P. of Religion) Lectr.

*Phonetics*, v. English*Physics*

Appleton, E. V., M.A. Camb.,

D.Sc., F.R.S.

Wheatstone Prof.

Richardson, O. W., M.A. Camb.,

D.Sc., F.R.S.

Yarrow Research Prof.

(Royal Society's).

Flint, H. T., D.Sc. Birm., D.Sc.,

Ph.D. Reader.

Williams, W. E., M.Sc. Manc.

Lectr.

Johnson, R. C., M.A. Ox., Ph.D.,

D.Sc. Lectr.



Mod. Greek, and the library of Dr. William Miller), (5) Frida Mond (Goethe and German Lit.), (6) T. R. R. Stebbing (Zool.), (7) F. D. Maurice Collection. There are also the following Departmental Libraries: 1. Anat. 2. Bot. 3. Chem. Engin. 4. Chem 5 Classics. 6. Educn. 7. Elect. Engin. 8. Engin. (Civ. and Mech.). 9. French. 10. Geog. 11. Geol. 12. German. 13. Hebrew. 14. Hist. 15. Maths. 16. Pharmacol. 17. Physics. 18. Physiol. 19. Psychol. 20. Spanish. 21. Zool.

LABORATORIES AND MUSEUMS. Anat. (Hughes Collection), Comp Anat., Biol., Bot., Chem., Chem. Engin., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Physics, Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

FACULTIES. Arts, Laws, Natural Science, Medical Science, Engineering, Theology. Deans: Prof. J. A. K. Thomson (Classics), Dr. H. Potter (English Law), Prof. E. V. Appleton (Physics), Prof. R. J. S. McDowall (Physiol.), Prof. A. H. Jameson (Engin.), Rev. R. Hanson, M.A., B.D. (Theol.).

*Evening Class Department* (classes in connexion with faculties of Theology, Arts, and Law). Dean, Prof. F. J. C. Hearnshaw (Hist.).

DEGREE COURSES in Arts, Laws, Science, Engineering, and Theology. Prelim. and Intern. courses in Medicine, and courses for the First and Second Exams. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women).

Engineering students receive preliminary workshop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4-years' course spend part of each year (18 months in all) in practical training.

*College Diploma* course in Engineering, ordinarily 3 yrs. A one-year post-graduate course in Chem. Eng. is provided, dealing with the general principles of Applied Chem. as a preparation for industrial posts. The *Associateship*, open to men and women who have graduated after a three-years' course and have also attended a prescribed course in Divinity. *Certificates* in Palaeography, Italian, Hebrew, Syriac, Spanish, Portuguese, Applied Psychol., and Chem. Eng.

ADVANCED STUDY. Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, Eastern Europe, and Ancient), Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science.

FEES. Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs.; Laws, 20 to 26 gs.; Science, 35 to 50 gs.; Med., 35 to 40 gs.; Engin., 48 to 60 gs.

SCHOLARSHIPS FOR GRADUATES. In Arts 3, aggregate value £250 p.a.; Science 6, ag. value £640 p.a.

RESIDENCE. Two hostels for men (one Theol. for 72 men and one general for 80 men), and one for 58 women (these Hostels are recognized by the Board of Education).

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

PUBLICATIONS. Separate Syllabus for each Faculty post free. *Calendar*, 4s. 6d. post free; *K.C. Review*.

## THE YEAR 1931-32

BENEFACTIONS. Anonymous, £250 towards cost of rebinding books in the Coll. Library. Dr. William Miller, his library of books on mediæval and

modern Greece. Coimbra Univ. Press, some 50 of its editions to the Coll. Library. A number of other gifts of books, apparatus, etc.

**NEW BUILDINGS.** The new Hableden Dept. of Anatomy formally opened April 27, 1932. The lease of 21 Surrey St. obtained, for conversion into a dept. of Chemical Research.

**OTHER DEVELOPMENTS.** The School of Slavonic Studies established as a separate Department of the University.

**NEW POSTS.** A Professorship of Psychol. in place of the former Readership; a Readership in Bio-Chem.; an Asst. Lectureship in Law; an Asst. Lectureship in Maths.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** The following lectured in the Coll.: Dr. Aylward M. Blackman (Oxford) on "Egyptian Myth and Ritual"; Prof. R. M. Dawkins (Bywater and Sotheby Prof. of Byzantine and Mod. Greek Lang. and Lit. at Oxford) on "Greek Pictures of the Holy Sepulchre"; Sir John Miles (Fellow of Merton Coll., Oxford) on "The Penal Laws of Assyria *circa* 1200 B.C."; Prof. J. Holland Rose (Vere Harmsworth Prof. of Naval Hist. at Cambridge) on "The Mediterranean in Ancient History"; Rev. Dr. C. Anderson Scott (Dunn Prof. of New Testament, Westminster Coll., Cambridge) on "Living Issues in Paulinism"; Dr. Theodore H. Robinson (Prof. of Semitic Lang. in Univ. Coll., Cardiff) on "Hebrew Myths"; M. le Prof. René Jasinski (Prof. of French Lang. and Lit. in the Univ. of Lille) on "Psychologie du Romantisme Français"; Dr. Hans Cloos (Prof. of Geol. in the Univ. of Bonn) on "Problems and Methods of Structural Geology"; Prof. M. Polanyi (Prof. of Chem. in the Kaiser Wilhelm Institut für Physikalisch-chemie und Electrochemie, Berlin) on "Atomic Reactions"; Prof. Nicolas Arseniew (Dept. of Russian Langs, Univ. of Königsberg) on "The Post-War Religious Situation in Central Europe"; Don Rafael Martínez (Secy. of the Centro de Estudios Históricos, Madrid) on "Spanish Landscape and Popular Architecture" and "Spanish Popular Art"; Don Dámaso Alonso (of the Centro de Estudios Históricos, Madrid, and the Taylorian Institute, Oxford) on "The Contemporary Novel in Spain."

**VISITS BY MEMBERS OF THE STAFF OF KING'S COLL.** Dr. W. R. Halliday (Principal) delivered the Gray Lectures on "Comparative Mythology and Greek Legend" in the Univ. of Cambridge. He also lectured on "Greek Thought in the Roman Empire" and "The Hellenistic Background of Early Christianity" at the Summer Meeting of the Board of Extra-mural Studies in the Univ. of Cambridge. Prof. J. K. Catterson-Smith (Elec. Engin.) delivered the Faraday Lecture on "Everyday Uses of Electricity" before the local centres of the Instn. of Elec. Engineers at Manchester, Liverpool, Newcastle-upon-Tyne, Leeds, Swansea, Dublin, and Aberdeen. Prof. O. W. Richardson (Physics) lectured in Vienna and at New Haven, Connecticut. Prof. D. Saurat (French) delivered two courses of lectures (one on Milton and one on Post-War European Lit.) in the Univ. of Columbia, New York. Mr. J. S. Huxley (Zool.) visited Columbia Univ., U.S.A., to introduce there the genetical study of Gammarus. Mr. J. Isaacs (English) lectured on "Modern English Literature" at the Summer School for French Teachers of English held at the Sorbonne. Mr. E. H. Warmington (Ancient Hist.) lectured to the Oxford Classical Assn. on "Explorations of the Ptolemics and the Romans up the Nile and down East Africa."

**DEATHS.** Emer. Prof. Ernest Wilson (Elec. Engin.); the Rt. Rev. Bishop Charles Gore (Theol.); Dr. Julius Steppat (formerly Reader in German).

## KING'S COLLEGE & KING'S COLLEGE FOR WOMEN 131

RETIREMENTS. Prof. S. A. F. White (Maths.) ; Prof. A. W. Pollard (Engl. Bibliography) ; Miss A. S. Paul (Tutor to Women Students) ; Rev. W. R. Matthews (Dean of the Theol. Fac.) on his appointment to the Deanery of Exeter ; Rev. Prof. C. F. Rogers (Theol.).

STUDENTS. Full-time day students working for a degree or diploma (incl. Theol.) : total, 1815, incl. 269 graduates. Part-time : total, 1139, incl. 84 graduates.

DEGREES OBTAINED. B A., 124 ; B.Sc., 74 ; B.Sc. (Eng.), 34 ; LL.B., 14 ; B.D., 8 ; Diplomas, 243.

Higher Degrees : M.A., 21 ; Ph.D. (Arts), 6 ; D.Lit., 1 ; LL.M., 2 ; M.Sc., 11 ; Ph.D. (Sci.), 9 ; M.Sc. (Eng.), 4 ; Ph.D. (Eng.), 1.

# UNIVERSITY INSTITUTES AND DEPARTMENTS

## UNIVERSITY OF LONDON, INSTITUTE OF EDUCATION

(Formerly LONDON DAY TRAINING COLLEGE)

Postal Address—Institute of Education (London Day Training College),  
Southampton Row, W.C.1.

DIRECTOR—Sir T. PERCY NUNN, M.A., D.Sc., Litt.D. Liv., LL D.  
St And.

### PROFESSORS, LECTURERS, ETC.

The Director	Prof.	Miller, J. A. Y., B.A. Ox.
Punnett, Margaret, B.A.		von Wyss, Clotilde, F.L.S.
	Vice-Principal.	Calthrop, Margaret G., Mod. Lang.
Hamley, H. R., M.A., M.Sc. Melb.	Prof.	Trpos.
Fairgrieve, J., M.A. Ox., B.A.	Reader.	Alford, E. J. G., M A. Camb.
		Whaite, H C , Slade Dip.
Lecturers :		2 Instrs. in Handwork, 1 in Music,
Gurrey, P., B.A., Ph.D.		1 in Voice Production, 2 in
Jeffreys, M. V. C., M.A. Ox.		Phys. Tr., 7 Supervisors of
Lauwerys, J. A , B Sc.		School Practice.

### GENERAL INFORMATION

London Day Training College was founded by the London County Council in 1902 as an institution in connexion with the Univ. working under the Regulations of the Board of Education for the Training of Teachers. The first Principal (1902–22) was Prof. (later Sir) John Adams. From 1909 to 1932 the Coll. was a School of the Univ. in Pedagogy, and as such was governed by a College Council composed equally of representatives of the L.C.C. and of the Senate. On Sept. 1, 1932, as the result of an agreement between the Board of Education, the L.C.C., and the Univ., the Coll. was transferred to the educational and financial control of the Univ., and its title was changed to "University of London, Institute of Education." The Institute is administered as a "central activity" of the Univ. by a Delegacy appointed by the Senate, and composed of representatives of that body, of the L.C.C., and of the teaching staff, together with certain co-opted members. Its work is carried on in the building erected by the L.C.C. in 1907 for London Day Training Coll., but will eventually be transferred to a new building on the Bloomsbury site provided by a special grant from the Council to the Univ.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools.

Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. On who has already graduated may devote himself continuously for a year to the theory, etc., of Educn. and obtain the Univ. diploma. Courses for the M.A. and Ph.D. Degrees in Educn. are also provided. *Fees* for 4-yr. course Entrance fee £20, Union and Library fee £2 : 10s. Fees for private student taking the Teacher's Diploma course : £45, together with Union and Librarian fee of £2 : 10s. Publication : *Prospectus*.

## THE YEAR 1931-32

RESIGNATIONS. Prof. Cyril Burt, Mr. J. J. Bell.

STUDENTS. Full-time, 226, including 190 graduates. Part-time, 298, a graduates.

DEGREES OBTAINED. M.A. (Edn.), 6 ; Ph.D. (Edn.), 1 ; Teacher's Diplom. 189.

## UNIVERSITY OF LONDON, COURTAULD INSTITUTE OF ART

20 Portman Square, London, W.1.

CHAIRMAN OF MANAGEMENT COMMITTEE—Rt. Hon. VISCOUNT LEE OF  
FAREHAM, G.C.B., G.C.S.I.

DIRECTOR—W. G. CONSTABLE, M.A. Camb, F.S.A.

DEPUTY DIRECTOR—J. G. MANN, M.A., B.Litt. Ox., F.S.A.

LIBRARIAN—RHODA WELSFORD.

## PROFESSORS, LECTURERS, ETC.

### *Æsthetic Theories*

Read, Herbert, D.S.O., M.C., M.A.  
Edm. Prof.

### *Architecture, Hist. of*

Dickie, A. C., M.A. Manc., F.S.A.,  
A.R.I.B.A. Prof.

### *Art, History of*

Constable, W. G. Prof.  
Mann, J. G. Reader.  
Fry, E. R., M.A. Camb., LL.D.  
Aberd.

### *Byzantine and Near Eastern Art*

Rice, D. Talbot.  
Duthuit, G.

### *Celtic and Viking Art*

Kendrick, T. D. (Brit. Mus.).

### *Ceramics*

Rackham, B., M.A. Camb., F.S.A.  
(V. and A. Mus.).

### *Chinese Art and Archæol.*

Yetts, W. P., O.B.E., M.R.C.S. Pro

### *Critical Theories, Hist. of*

Blunt, A. F., B.A. Camb.

### *Drawings*

Popham, A. E., B.A. (Brit. Mus.)

### *Engraving*

Hind, A. M., O.B.E., M.A. Camb.  
F.S.A. (Brit. Mus.).



*Furniture*

Edwards, H. C. R. (V. and A. Mus.).

*Holbein*

Ganz, Prof. Paul (Basle Univ.)

*Painting, English*

Johnson, C. (Nat. Gallery)

*Painting, Flemish*

Cammaerts, Emile, C.B.E., LL.D.  
Glas Prof.

*Painting and Engraving, German*

Dodgson, C., C.B.E., M.A. Ox.  
(Brit Mus.).

*Painting, Nineteenth Century*

Manson, J. B. (Tate Gallery).

*Painting, Renaissance*

Clark, Kenneth (Ashmolean Mus)  
Waterhouse, E. K. (Nat. Gallery).

*Romanesque Art*

Clapham, A. W.

*Sculpture, Gothic*

Gardner, Arthur, B.A. Ox.

*Sculpture, Italian*

MacLagan, E. R. D., C.B.E., B.A.  
Ox., F.S.A., A.R.I.B.A.,  
O.I.P. (V. and A. Mus.).

*Textiles*

Kendrick, A. F. (V. and A. Mus.).

## GENERAL INFORMATION

Opened to students Oct. 1932, as the result of a gift of £100,000 for buildings and partial endowment by Mr. Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Recent benefactions include an endowment by Mr. J. G. Graves. A Univ. Dept. concerned with teaching and research in the History of Art, including both European and Oriental. Courses are provided leading to B.A. Hons., M.A. and Ph.D. in the subject, also to a Diploma in the Hist. of Art. Occasional and research students also accepted. The students are mainly graduates. The present headquarters of the Institute, one of the finest examples of the work of the Brothers Adam, is also a gift from Mr. Courtauld. When the headquarters of the Institute are moved to Bloomsbury, 20 Portman Sq. will remain the official residence of the Director, and as a centre for special studies.

FEES. For full-time students, £35 p. a.

STUDENTS (Oct. 1932). Full-time, 48; part-time, 15.

## UNIVERSITY OF LONDON, SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES

40 Torrington Square, London, W.C.1.

CHAIRMAN OF COUNCIL—MAJOR-GENERAL THE LORD TREOWEN, C.B.,  
C.M.G.

DIRECTOR—Prof. Sir BERNARD PARES, K.B.E., M.A. Camb.

SECRETARY—DOROTHY GALTON.

## PROFESSORS, LECTURERS, ETC.

<i>Czechoslovak</i>		Lectrs. :	
Hanak, Jan, Ph.D.	Lectr.	Raffi, Arshak (Lang.)	
<i>History, Central European</i>		Struve, G. P., B.A. (Lit.)	
Seton-Watson, R. W., D Litt Ox,		Turin, S P (Econ.)	
Ph.D. Prague and Zag.		Kononov, S (Econ.)	Hon Lectr
	Masaryk Prof.	<i>Serbo-Croat and Slovene</i>	
<i>Polish</i>		Subotić, D. P., Ph.D. Munich,	
Borowy, W., Ph.D.	Lectr.	B Litt. Ox.	Reader.
Wharton, L. C, M.A. Ox.		<i>Slavonic Literatures</i>	
	Hon. Lectr.	Lavrin, Prof. Janko	Hon Lectr.
<i>Russian</i>		<i>Slavonic Philology, Comparative</i>	
Pares, Sir Bernard, K.B.E, M.A.		Jopson, N. B, M.A.	Reader.
Camb. (Hist.)	Prof.		

## GENERAL INFORMATION

Established at King's Coll, 1915. Since Aug. 1932 a dept. of the Univ. in Arts. Library, 12,000 vols. FEES : £2 : 10s. to 34 gs. per session. COURSES : Special intensive courses for War Office, etc., students, and an extensive programme of lectures open to the public. Teaching provided in the lang., lit., hist., and econ. of Russia and the lesser-known countries of Eastern and Central Europe. Special facilities for research and post-graduate work. A diploma is open to students who have not matriculated at the Univ.

PUBLICATIONS : *Slavonic and East European Review* (3 times a yr.), 6s. per part.

## THE YEAR 1931-32

STUDENTS. Total, pt.-time, 76, including 14 post-graduate.

DEGREES OBTAINED. Ph.D., 1 ; Acad. Dip. in Serbo-Croat, 2.

UNIVERSITY OF LONDON, BROWN ANIMAL  
SANATORY INSTITUTION

149 Wandsworth Rd., Vauxhall, S.W.8.

SUPERINTENDENT—Prof. F. W. TWORT, M.R.C.S., L.R.C.P., F.R.S.

Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients (some 5 or 6 thousand per annum) are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab. 5 lectures free to the public, based on the researches conducted in the Instn., are given annually at the Univ. or the R. Coll. of Surgeons.

# UNIVERSITY OF LONDON, THE FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS

(WITH WHICH IS INCORPORATED THE DRAPERS' COMPANY  
BIOMETRIC LABORATORY)

Address—University College, Gower St., W.C.1.

## PROFESSORS, LECTURERS, ETC.

<i>Eugenics and Applied Statistics</i>	Pearson, E. S., M.A. Camb., D.Sc.
Pearson, Karl, M.A. Camb., LL.D.	Sr. Lectr
Aberd. and St. And., F.R.S.	
Galton Prof.	Bell, Julia, M.A., M.R.C.P., M.R.C.S.
Elderton, Ethel M., D.Sc.	Hon. Galton Research Fellow.
Reader, Galton Research Fellow.	Morant, G. M., D.Sc. Lectr.
Stocks, P., M.A., M.D. Camb., D.P.H., Ch.B. Manc.	1 Asst., 1 Research Asst., 1 Hon. Research Asst, 1 Mathl. Asst.
(Med. Statistics) Reader.	

## GENERAL INFORMATION

Founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. Open to Research students in Eugenics of both sexes. The *Biometric Laboratory*, founded by the Drapers' Company in 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, measuring instruments, etc. Research workers can start at any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths.

*Courses of Instruction* are given on Statistics and cognate subjects, and also short courses of popular lectures. *Fees* (for Research workers): per term, £4:14:6. A fee of 17 gs. per session admits to the Eugenic and Biometric Labs. on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculating machines, 1½ gs. per term.

**PUBLICATIONS.** *Annals of Eugenics*, a Journal for the scientific study of Racial Problems, vols. I-IV.; *Eugenics Lab. Memoirs* (i.-xxvi.) and *Lecture Series* (i.-xiv, popular exposition of conclusions); *Treasury of Human Inheritance* (15 parts). *Biometrika Journal* (i.-xxiii.); Drapers' Company Research Memoirs, *Biometric Series* (i.-xii.); and *Studies in Natural Deterioration* (i.-xiii.); Drapers' Company *Technical Series* (i.-vii.); *Tracts for Computors* (i.-xvii.). Ephemeral papers published in *Questions of the Day and the Fray* (i.-xiii.).

## UNIVERSITY OF LONDON, BARTLETT SCHOOL OF ARCHITECTURE

Address—University College, Gower St., W C.1.

### PROFESSORS, LECTURERS, ETC.

<i>Architecture</i>		Wilson, H. Warren, A.R.C.A.
Richardson, A. E., F.S.A., F.R.I.B.A.	Prof.	(Decoration) Lectr.
Adshead, S. D., M.A. Liv., M.Arch., F.R.I.B.A.		Dawson, M. J., F.R.I.B.A. (Building Constrn.) Lectr.
(Town Planning) Prof.		Stanley, L. S., M.A. Camb., A.R.I.B.A. Lectr. & Tutor
Corfiato, H	Sr. Lectr	1 Sr. Asst., 2 Asst. Lectrs., 1 Asst., 2 Studio Instrs.

### GENERAL INFORMATION

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final exams. respectively. A Division of Decoration, instituted with the co-operation of the Inc. Institute of British Decorators, provides a 3-yrs.' Certificate Course. The accommodation includes three large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students.

## UNIVERSITY OF LONDON, INSTITUTE OF HISTORICAL RESEARCH

Malet St., W.C.1.

HON. DIRECTOR—A. F. POLLARD, M.A., Litt.D., F.B.A.

SECRETARY AND LIBRARIAN—C. G. PARSLÖE, B.A.

The Institute of Historical Research is the Univ. Laboratory of History, devoted exclusively to post-grad. and research work. It is situated close to the British Museum, and consists of a systematically planned series of seminar libraries, with the books containing or describing the main sources of mediæval and mod. hist. (esp. those whose MS. originals are in the Record Office and other London Archives). It is open not only to every prof., reader, or other teacher of hist. in the Univ. and his research students, but to historians, archivists, and teachers and research students from other Univs., approved by the Committee. The work is carried on in (1) a series of preliminary courses dealing with the

sources of English and Colonial history, an introduction to work in archives, and palæography; (2) a series of seminars dealing with special historical subjects.

## UNIVERSITY OBSERVATORY

Mill Hill Park, N.W.11.

DIRECTOR—Prof L. N. G. FILON, C.B.E., B.A. Camb., M.A., D.Sc.,  
F.R.S.

WILSON OBSERVER—C. C. L. GREGORY, M.A. Camb., F.R.A.S.

THE UNIVERSITY OBSERVATORY was opened in 1929. It is situated in Mill Hill Park, London, N.W.11, on a site granted by the Hendon Urban District Council on a 999 years' lease at a nominal rent. It contains a 24-inch reflecting telescope, the gift of Mr. J. G. Wilson; an 8-inch refracting equatorial telescope, the gift of Mr. H. R. Fry; and a spectrographic laboratory. The Observatory is open to students of all the Colleges of the University in the Faculty of Science. Application for admission should be made to the Director.

# SCHOOLS OF THE UNIVERSITY

## IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Address—Prince Consort Road, S. Kensington, S.W.7.  
Telegrams—Scientist, Southkens, London

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—Rt. Hon VISCOUNT BUCK-  
MASTER OF CHEDDINGTON, G C.V.O

RECTOR—HENRY THOMAS TIZARD, C.B., M.A. Ox., F.R.S.

SECRETARY—A. GOW, M.A. Camb., B.Sc

ASSISTANT SECRETARY, SECRETARY TO THE DELEGACY, AND REGISTRAR  
—G. C. LOWRY, M.A. Camb.

### PROFESSORS, LECTURERS, ETC.

#### *Aeronautics*

Bairstow, L., C.B.E., A.R.C.S.,  
F.R.S. Prof. (Aviation).

Hill, F. T., F.R.Ae.S., M.I.Ae.E.  
Asst. Prof. (Design).

#### Lecturers:

Rowe, A. P., B.Sc., A.R.C.S.,  
D.I.C. (Navign. and Instrs.).

Roxbee-Cox, H, Ph D. (Strength  
of Struts).

Moss, H., D.Sc., A.R.C.S., D.I.C.  
(Engine Design).

Stern, W. J., B.Sc., A.R.C.S.,  
D.I.C. (Engine Design).

1 Demr.

#### *Astrophysics*

Fowler, A., A.R.C.S., D.Sc., F.R.S.  
Yarrow Research Prof.

Dingle, H., B.Sc., A.R.C.S.  
Asst. Prof.

#### *Bacteriology*

Paine, S G., D.Sc., F.I.C.  
Asst. Prof. and Univ. Reader.

1 Demr.

#### *Bio-Chemistry*

Chibnall, A. C., M.A. Camb., D.I.C.,  
Ph.D. Asst. Prof.

Buston, H. W., Ph.D., D.I.C. Lectr.

*Biology, v Bacteriol., Bot.,  
Entomol., Zool.*

#### *Botany*

Blackman, V. H., M.A., Sc.D.  
Camb, F.R.S.

(Plant Physiol. and Path.)  
Prof., Dir. Biol. Labs.

Gregory, F. G., D.Sc., D.I.C.  
(Plant Physiol) Asst. Dir.

Brown, W, M.A. Edin., D.Sc.  
(Plant Path.) Prof.

Tabor, R. J., B.Sc., F.L.S.  
Asst. Prof and Univ. Reader.

#### Lecturers:

Howarth, F, B.Sc., A.R.C.S.,  
F.L.S

Henderson, F Y., D.Sc., D.I.C.,  
F.L.S.

Ashby, E., M.Sc., D.I.C.

Pratt, Miss C. A., M.A. Camb.,  
Ph D, D.I.C. Asst. Lectr.

2 Demrs., 5 Research Staff.

#### *Chemical Technology*

Bone, W. A., D.Sc. Manc., Ph.D.  
Heid., F.R.S. Prof.

Finch, G. I., M.B.E., Dip. T.C.  
Zürich

(Electro-Chem. and Electro-therm.) Reader

Ure, S. G. M., M.A., B.Sc. Glas  
(Chem. Eng.) Reader

Himus, G. W., B.Sc., A.R.C.S.,  
D.I.C. (Fuel T.) Lectr

Hancock, W. C., B.A. Camb.  
(Refractories) Lectr.

Bailey, F. J., M.Sc. Durh., D.I.C.  
(Chem. Eng.) Lectr

Outridge, L. E., B.Sc. Asst. Lectr.

### *Chemistry*

Thorpe, J. F., C.B.E., D.Sc.  
Manc., Ph.D. Heid., F.R.S.

(Org. Chem.) Prof.

Philip, J. C., O.B.E., M.A., D.Sc.  
Aberd., Ph.D. Gött., F.R.S.

(Inorg. and Phys. C.) Prof.

Briscoe, H. V. A., D.Sc., D.I.C.  
(Inorg. C.) Prof.

Whiteley, Martha A., O.B.E.,  
D.Sc., A.R.C.S. Asst. Prof.

### Lecturers:

Harwood, H. F., M.Sc. Manc.,  
Ph.D. Heid.

Eldridge, A. A., B.Sc.

Sugden, J. N., Ph.D., D.I.C.

Ellingham, H. T., Ph.D., A.R.C.S.

Bull, P. C., D.S.O., A.R.C.S.

Kon, G. A. R., M.A. Camb., D.Sc.,  
D.I.C.

Pollard, A. G., B.Sc., A.R.C.S.

Farmer, E. H., D.Sc., A.R.C.S.

6 Asst. Lectrs., 2 Demrs.

*Engineering, Chemical, v. Chem.  
Tech.*

*Engineering, Civil, and Surveying*

Dixon, S. M., M.A., M.Sc., B.A.I.  
Dub. Prof.

Clements, R. G. H., M.C.,  
M.Inst. C.E.

(Highway Engin.) Prof.

Purser, J., B.A., B.A.I. Dub.,  
M.Sc. Berm.

Asst. Prof. and Univ. Reader.

Rice-Oxley, K., A.C.G.I.

Asst. Prof. and Univ. Reader.

### Lecturers:

Shearer, W. V., B.Sc., M.Inst. C.E.

Manton, B. G., B.Sc.

1 Asst. Lectr., 2 Demrs.

*Engineering, Electrical*

Fortescue, C. L., O.B.E., M.A.  
Camb., M.I.E.E. Prof.

### Reader:

Rushton, A., M.Sc. (Tech.) Manc.

### Lecturers:

Sims, J. W.

Hopkin, D. W.

Taylor, E. O., B.Sc., D.I.C.

Urwin, C. R., A.C.G.I.

Hughes, L. E. C., Ph.D., A.C.G.I.

Reid, D. G., B.Sc., A.C.G.I.

1 Asst. Lectr., 6 Demrs.

*Engineering, Mechanical, and  
Motive Power*

Lander, C. H., C.B.E., D.Sc.,  
M.Inst. C.E., M.I.Mech.E.

Prof.

Witchell, E. F. D., B.Sc., A.C.G.I.,  
M.I.Mech.E. Prof.

### Asst. Professors:

Cruikshank, A., M.I.Mech.E.

Howard, J. V., D.Sc. (Univ.  
Reader).

Smith, S. L., D.Sc., A.C.G.I. (Univ.  
Reader).

### Lecturers:

Lewitt, E. H., B.Sc. (Eng.).

Cawley, G. M.

Dyson, F., B.Sc., A.C.G.I.

Collins, W., B.Sc., A.C.G.I.

Glaister, E., B.Sc., D.I.C.

2 Asst. Lectrs., 3 Demrs.

*Entomology*

Munro, J. W., M.A. Ox., D.Sc.  
Edin. Prof.

Richards, O. W., M.A. Lectr.  
1 Demr., 8 Research Staff.

*Fuel, v. Chemical Technology*

*Geology, Mining Geol., and Oil  
Tech.*

Boswell, P. G. H., O.B.E., D.Sc.,  
D.I.C., M.Inst. M.M., F.R.S.

Prof.

# IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY 141

Cullis, C. G., D.Sc.  
(Mining Geol.) Prof  
Davies, A. M., D.Sc., A.R.C.S.  
(Palæont.) Reader  
Illing, V. C., M.A. Camb.  
(Oil Tech.) Reader  
Brammall, A., M.Sc., Ph.D., D.I.C.  
(Petrology) Lectr.  
Wolf, A. Reader.  
Jones, W. R., D.Sc., D.I.C. Lectr.  
Slater, G., D.Sc., D.I.C. Asst. Lectr.  
Whittard, W. F., Ph.D., D.I.C.  
5 Demrs. Asst. Lectr

## *Mathematics and Mechanics*

Chapman, S., M.A. Camb., D.Sc.  
Vict., F.R.S. Chief Prof.  
Levy, H., D.Sc. Ox., M.A., B.Sc.  
Edin. Prof.  
Bickley, W. G., M.Sc. Reader.  
McCrea, W. H., M.A., Ph.D. Camb.  
Reader  
Odell, W. L., A.R.C.S. Asst. Prof.

## Lecturers:

Hodgson, T., B.A. Ox., B.Sc.  
Milner, L. G., A.R.C.S.  
Dickson, T. W., M.C., B.A. Ox.  
Harvey, J., B.Sc., A.R.C.S.  
Kebby, C. H., M.Sc., A.R.C.S.  
Reeve, W.  
Price, A. T., B.Sc.  
6 Asst. Lectrs., 2 Demrs.

## *Metallurgy*

Carpenter, Sir Harold, M.A. Ox.,  
Ph.D. Leip., A.R.S.M.,  
M.Inst.M.M., F.R.S. Prof.  
Merrett, W. H., A.R.S.M.,  
M.Inst.M.M., F.I.C.

Asst. Prof.

Chapple, H. M., A.R.S.M. Lectr.  
Dannatt, C. W., A.R.S.M., D.I.C.

Lectr.  
Lectr.

Fisher, M. S., Ph.D.  
1 Asst. Lectr.; 1 Demr.

## *Meteorology*, v. Physics

## *Mineralogy*, v. Geol.

## *Mining*, v. also Geol.

Truscott, S. J., D.Sc. Witw.,  
A.R.S.M., M.Inst.M.M. Prof.

Holman, B. W., O.B.E., A.R.S.M.,  
M.Inst.M.M. Reader.  
Sillick, W. E. G., A.R.C.S., D.I.C.  
Asst. Prof.

## Lecturers:

Webb, A. H., M.Inst.M.M.  
Wrangham, D. A., B.Sc.

## Asst. Lectrs.:

Tweed, W. S., D.I.C.  
Dinsdale, J. R., B.Sc.  
Wilson, W. H., A.R.S.M.

## *Oil*, v. Geol.

## *Optics*, *Technical*

Pollard, A. F. C., A.R.C.S.,  
F.Inst.P.

Prof. (O.E. (Mech.) and  
Instrument Design).

Martin, L. C., D.Sc., A.R.C.S.,  
D.I.C. Reader.

Wright, W. D., Ph.D., D.I.C.  
Lectr.

1 Asst. Lectr.

## *Petrology*, v. Geol.

## *Physics*, v. also Astrophysics and Techn. Optics

Thomson, G. P., B.A. Camb.,  
F.R.S. Prof.

Rankine, A. O. Prof.  
Walker, Sir Gilbert T., C.S.I.,  
M.A., Sc.D., Ph.D., F.R.S.

(Meteorol.) Prof.

Dingle, H., B.Sc., A.R.C.S.  
Reader.

Gregory, H. S., Ph.D., D.I.C.  
Reader.

## Lecturers:

Brinkworth, H., M.Sc., A.R.C.S.  
Green, S. E., A.R.C.S.  
Archer, C. T., M.Sc., A.R.C.S.

## Asst. Lecturers:

Moon, P. B., B.A. Camb.  
Johnson, B. K.  
Stephens, R. W. B., B.Sc., D.I.C.  
Carroll, F. G., B.Sc., A.R.C.S.  
9 Demrs.

## *Refractory Materials and Silicates*, v. Chemical Tech.



<i>Woods and Fibres</i> , v. Botany	Hewer, H. R., M.Sc., D.I.C. Lectr.
<i>Zoology</i>	[Prof. 2 Demrs.
MacBride, E. W., M.A. Camb.,	
LL.D. McG., D.Sc., F.R.S.	

## GENERAL INFORMATION

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges:

The Royal College of Science.

The Royal School of Mines.

The City and Guilds (Engineering) College.

The departments and (in brackets) sub-departments are: Aeronautics (Aerodynamics), Biology (Botany, Bio-Chemistry, Plant Physiology, Plant Pathology, Bacteriology), Chemical Technology (Fuel and Refractory Materials, Chemical Engineering, Electro-Chemistry), Chemistry (Inorganic, Organic, and Physical), Engineering—Civil and Surveying, Electrical, Mechanical, and Motive Power, Geology (Economic Mineralogy, Mining Geology, Technology of Oil), Mathematics and Mechanics, Metallurgy, Mining (Mining Geology, Mining Surveying), Physics (Astrophysics, Technical Optics, Geophysics, Meteorology), Zoology (Entomology).

The total staff exceeds 200. The College is a School of the University in Science and Engineering. Students who are registered as candidates for one of the Associateships, and who have matriculated at the Univ. of London by examn. or exemption, are eligible for the B.Sc. (Special) Degree of the Univ., in the Facs. of Sci. or Eng., on the examns. for the relative Associateship, if the Univ.'s regns. are complied with. This arrangement is subject to review in 1935. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of Univ. standard whose vocations will be concerned with the scientific aspects of industries.

**LIBRARIES, ETC.** The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, **RESEARCH LABORATORIES**, and full facilities for advanced study.

**ADMISSION.** The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed; the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence. (i) *R.C.S. and R.S.M.* A candidate for admission must be as a rule not less than 17 yrs. of age. For admission to 1st yr. Assoc. courses an Entrance examn. in Maths. and Mechanics, Chem., Physics, Engl., and French or German must be passed, unless equivalent examns. have been passed elsewhere. (The Matricn. examn. of the Univ. is considered equivalent provided the student has passed in "More Advanced Maths." and "Elem. Mechanics," and in the other subjects prescribed for the Entrance examn.) Candidates for admission to a 2nd yr. must pass the College Entrance examn. in More Advanced Maths., Mechanics, Chem., and Physics, unless equivalent examns. have been passed elsewhere. For admission to a 3rd yr. candidates must have reached a standard correspondingly higher. (ii) *City and Guilds* A candidate desiring to enter for the 1st yr. of the

Assoc'ship course must be at least 16 yrs. of age and must pass entrance examn. in Maths. and Mechanics, Geom. Drawing, Phys., Chem., Engl., and French or German, unless he has passed the Matricn. examn. of the Univ., taking certain specified subjects, including More Advanced Maths. For admission to the 2nd yr. course candidates must take the easier and more advanced papers, Geom. and Mach. Drawing, and practical Chem. in the College examn., or they must have passed the Interm. B.Sc. (Eng.) in the Univ. in Maths., Pure and Applied, Heat, Elec. and Magn., Eng., Drawing and Design, and Chem. Candidates for admission to advanced or research work in the R.C.S., R.S.M., or C. and G. must satisfy the Coll. authorities as to their previous training.

**DIPLOMA AND OTHER COURSES.** Assoc'ship of each of the 3 associated Colls., 3 or 4 yrs.; specially arranged courses in Advanced Sci. or Techn., 1 or more yrs., leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

**FEES.** Entrance, £2; Tuition, per session, for full-time Associateship courses of study, £62:10s. (including Union fees); for less than full-time courses, *pro rata*; for advanced study, £62:10s., excepting post-graduate courses in Chemical Technol., Foods and Drugs, Agric. Chemistry, Geophysics, and Technical Optics, which are each £22:10s.; for Research Work the fee is £22:10s. per session (including Union fees), but an additional charge may be made for expensive apparatus or chemicals. Graduates from other Institutions taking the 4th year Assoc'ship course in Botany will be charged fees at the Research rate of £22:10s.

**SCHOLARSHIPS** for post-grad. work: Beit Fellowships for Research, v. Appendix XXIII. 15 and 17; approx. £220 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*).

**AFFILIATION, ETC.** The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

**PUBLICATIONS.** *Annual Report*; *Calendar*, with list of Associates, pubd. by the Coll.

## THE YEAR 1931-32

**NEW BUILDINGS.** The unused portions of the third floor of the new building in Prince Consort Road have been fitted up as an Examination Room, and a Sick Room for the use of Hostel Residents.

**NEW DEPARTMENT** A Sub-Dept. of Geophysics in the Dept. of Physics.

**OTHER DEVELOPMENTS.** The Governing Body have founded Fellowships of the College, an honorary award for distinguished old students. 9 Fellowships were awarded.

**RETIREMENT.** Prof. H. B. Baker (Chemistry).

**DIPLOMAS GRANTED.** A.R.C.S., 84; A.R.S.M., 28; A.C.G.I., 103; D.I.C., 101. Total, 316.

**STUDENTS.** Full-time: total, 1032, including 241 graduates. Part-time: total, 80, including 58 graduates. In addition: 58 Research Assistants, and 18 Intercollegiate students.

**DEGREES OBTAINED.** B.Sc. in Science, 83; in Engineering, 92; higher degrees in Science: Ph.D., 46; M.Sc., 22; D.Sc., 8; higher degrees in Engineering: Ph.D., 4; M.Sc., 9; D.Sc., 1.

# EAST LONDON COLLEGE

Address—Mile End Rd., E.1.

CHAIRMAN OF THE COLLEGE COUNCIL—Sir LYNDEN MACASSEY, K.B.E.,  
K.C.

PRINCIPAL—Maj.-Gen. Sir FREDERICK B. MAURICE, K.C.M.G., C.B.,  
LL.D. Camb., D.Lit.

REGISTRAR—E. J. WIGNALL.

## PROFESSORS, LECTURERS, ETC.

### *Aeronautical Engineering*

Piercy, N. A. V., D.Sc. (Eng.)  
Lectr.

Lectrs. :

John, W. J., B.Sc., D.I.C.  
Stoner, C. R., B.Sc.

### *Botany*

Fritsch, F. E., Ph.D. Mun., D.Sc.,  
F.R.S. Prof.  
Haines, F. M., B.Sc., Ph.D. Lectr.  
Carter, Nellie, D.Sc. Birm. Lectr.

### *English Lang. and Lit.*

Nicoll, J. R. Allardyce, M.A. Glas.  
(to 30 6 33) Prof.

Lectrs. :

Williams, O. T., M.A. Wales.  
Budd, F. E., B.A., Ph.D.

### *Chemistry*

Partington, J. R., M.B.E., D.Sc.  
Manc. Prof.  
Drew, H. D. K., Ph.D., D.Sc.  
Reader.

### *French Lang. and Lit.*

Dechamps, J., D. ès L. & Ph.  
Liège Prof.  
Rozelaar, L. A., M.A. Lectr.  
Halket, Eliz. C., M.A. Lectr.  
Seguin, Gilberte, L. ès L. Besançon  
Asst.

Lectrs. :

Jones, D. C., D.Sc. Wales, Ph.D.  
Johns Hopkins  
Patterson, W. H., D.Sc. Manc.  
Bury, F. W., M.Sc. Manc.  
Hatt, H. H., Ph.D.

### *Geography and Geology*

Smith, H. G., B.Sc. Reader.  
Tunstall, Bessie M., B.A. Lectr.

### *Classics*

Earp, F. R., M.A. Camb. Prof.  
Mozley, J. H., M.A. Camb. Lectr.

### *Engineering, Civil and Mechanical, v. also Aero. Eng.*

Lamb, E. H., D.Sc., M.Sc. Manc.  
Prof.

### *German Lang. and Lit.*

McClean, R. J., M.A., Ph.D.  
Kömg. Lectr.

Higgins, A. L., D.Sc. Belf.  
(Civil E.) Lectr.

### *History, Modern*

Clarke, F., M.A. Ox. Prof.  
Chew, Helena M., M.A., Ph.D.  
Lond. Lectr.

Wedgwood, G. A., M.Sc. Belf.  
(Mech. E.) Lectr.

Brendel, F. C. L., B.Sc. Lectr.  
2 Assts.

### *Mathematics, Pure and Applied*

Le Beau, G. S., M.A. Ox. Lectr.\*  
Churchill, W. F. S., M.A. Ox.  
(Applied M.) Asst. Prof.

*Engineering, Electrical* [Prof.  
MacGregor-Morris, J. T., M.I.E.E.

\* Head of Department.

Lectrs. :	Calthrop, J. E., M.A. Camb., M.Sc.	
Cooper, F. T., B.Sc.	Andrews, J. P., D.Sc.	
Soal, S. G., M.A.	Irons, E. J., B.Sc., Ph.D.	
Green, S. L., M.Sc.		
Saw, Grace A., M.A., B.Sc.	<i>Spanish</i>	
	Barragán, J. V.	Lectr.
<i>Physics</i>		
Robinson, H. R., Ph.D. Camb.,	<i>Zoology</i>	
D Sc. Manc., F.R.S. Prof.	Mudge, G. P., A.R.C.S.	
Lectrs. :		Head of Dept.
Ferguson, A., M.A. Wales, D.Sc.	Grove, A. J., M.A., D.Sc.	Lectr.

## GENERAL INFORMATION

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Co., and representatives of the L.C.C., the Univ., and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research LABORATORIES in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Fee per session, £22 : 10s. Hall of Residence for men students at South Woodford, and Hall of Residence for women at Whipps Cross ; residence and board from 30s. a week. *Calendar*, 1s. post free. *College Magazine*, Old Students' Association.

## THE YEAR 1931-32

VISITS of Professors to other Univs. Prof. F. E. Fritsch lectured at Stanford Univ., California ; Prof. A. Nicoll lectured at Yale, Harvard, and Chicago Univs., U.S.A.

STUDENTS. Full-time : total, 456, including 43 graduates. Part-time : total, 55, including 50 graduates.

DEGREES OBTAINED. B.A., 28 ; B.Sc., 46 ; B.Sc. (Eng.), 15 ; Ph.D., 11 ; M.A., 2 ; M.Sc., 3 ; M.Sc. (Eng.), 1.

# BIRKBECK COLLEGE

Address—Fetter Lane, E.C.4

PATRONS—THEIR MAJESTIES THE KING AND QUEEN.

PRESIDENT OF THE COLLEGE—THE VISCOUNT BURNHAM, Bart., G.C.M.G.,  
C.H., T.D., LL.D. Camb., McGill, and W. Aust, D.Litt. Durh.,  
M.A. Ox., J.P.

CHAIRMAN OF THE GOVERNORS—W. L. HICHENS.

PRINCIPAL—GEORGE SENTER, D.Sc., Ph.D., F.I.C.

SECRETARY—G. F. TROUP HORNE, B.A.

LIBRARIAN—M. CLIVE HILDYARD, B.A., Ph.D.

## PROFESSORS, LECTURERS, ETC.

### *Botany*

Gwynne-Vaughan, Dame Helen,  
G.B.E., LL.D. Glas., D.Sc.,  
F.L.S. Prof.\*  
Barnes, B. F., B.Sc., Ph.D., F.L.S.  
Lectr.  
Duerden, H., B.Sc., Ph.D.,  
A.R.C.S. Lectr.

### Special Lectrs. :

Bolas, B. D., M.Sc.  
Taylor, G., B.Sc. Edin.

### *Chemistry*

Sugden, S., D.Sc., A.R.C.S., A.I.C.  
(Phys. Chem.) Prof.\*  
The Principal Prof.  
Barrow, F., M.Sc. Birm., Ph.D.  
Stras. Lectr.\*  
Myddleton, W. W., D.Sc. Belf.  
Lectr.  
Thorneycroft, F. J., B.Sc. Birm.,  
M.Sc. Lectr.  
2 Demrs.

### *Classics and Ancient History*

Wright, F. A., M.A. Camb. Prof.\*  
Sinclair, T. A., M.A. Camb.  
Reader.  
Gould, H. E., M.A. Lectr.†  
Langsford, K. S., B.A. Ox., B.A.  
Lectr.†

### *Economics*

Robinson, Marjorie E. (Mrs.),  
M.A. Camb. Lectr.†

### *English Lang. and Lit.* [Lectr.\*

Lobban, J. H., M.A. Aberd.  
Daunt, B. Marjorie, Final Eng.  
Hons. Ox. Lectr. (E. Lang).  
Potter, S. M., B.A. Ox. Lectr.†

### *French Lang. and Lit.* [Prof.\*

Tanquerey, F. J., B. ès Sc. Rennes,  
D. ès L. Paris, O.A. Fr.  
Wilson, Claudine I., M.A. Aberd.,  
Ph.D. Reader.  
Gould, Marjorie, B.A. Lectr.†  
Aubry, Alice, L. ès L.  
Clermont-Ferrand Ph.D. Lectr.†

### *Geography*

Taylor, Eva G. R., D.Sc. Prof.\*  
Matthews, H. A., B.A., Ph.D.  
Lectr.  
Henderson, H. C. K., M.A., B.Sc.  
Glas. Lectr.  
O'Dell, A. C., B.Sc. Lectr.†  
Unstead, J. F., M.A. Camb., D.Sc.  
Dir. of Research in  
Regional Geog.

### *Geology*

[Reader.\*  
Davies, G. MacD., M.Sc., F.G.S.  
Spath, L. F., D.Sc., F.G.S. Lectr.†

\* Head of Dept.

† Pt.-time Lectr.

Smithson, F., B.Sc., Ph.D., F.G.S.  
Lectr.†

*German*

Bithell, J., M.A. Manc. Reader.\*

Reupke, W., Ph.D. Greifswald  
Lectr.†

*History* [Reader.\*]

Jones, Arthur, M.A. Manc.

Morrell, W. P., M.A. N.Z., D.Phil.  
Ox. Reader.

Box, P. H., B.A. Ox., Ph.D. Illn.  
Lectr.

*Italian*

Crespi, A., D.Lett. Padua Lectr.†

*Law*

Welford, A. W. Baker, M.A.  
Camb.

(Engl Legal System,  
Com. L., Merc. L., Con-  
flict of Laws) \*†

O'Malley, B. L. A., B.A. Camb.  
(Roman L., Hist. of  
English L.) Lectr.†

Richardson, J. B., M.A., LL.B.  
Camb.

(Equity, Eng. L. of Pro-  
perty, Evidence, and  
Procedure) Lectr.†

Goitein, H., LL.D.  
(Const. and Crim. L.) Lectr.†

Barrett-Lennard, Sir F.  
(Junspr.) Lectr.†

*Mathematics, Pure and Applied*

Smart, E. H., M.A. Camb. Lectr.\*

Dienes, P., D.Ph Budapest  
D. ès Sc. Paris Reader

Fox, C., M.A. Camb., D.Sc. Lectr

Cooke, R. G., D.Sc. Lectr

Ball, A. E., B.A. Camb. Lectr.†

Lawrence, B. E., M.A. Ox., B.Sc.  
Lectr.†

*Philosophy, Psychology, and Logic*

Joad, C. E. M., M.A. Ox. Lectr.\*†

Greenwood, T., M.A., L. ès L.  
Paris, O A. (Logic) Lectr.†

*Physics* [Prof.\*]

Griffiths, A., D.Sc. Manc., A.R.C.S.

Simons, L., D.Sc., F.Inst.P.

Reader.

Clack, B. W., D.Sc., Ph.D.,  
F.Inst.P. Lectr

Nettleton, H. R., D.Sc. Lectr

3 Demrs.

*Zoology*

Jackson, H. G., D.Sc. Liv. Prof.\*

Spaul, E. A., D.Sc., Ph.D. Reader

Kitching, J. A., B.A. Camb. Lectr

Russell, Lilian, B.Sc. Sheff., M.Sc  
Museum Asst. and Demr

**Matriculation Department**

\*W. Walker, M.A. Manc., B.Sc.

H. E. Weaver, B.Sc., Lectr.

and 9 specialists from other

depts.

\* Head of Dept.

† Pt.-time Lectr.

## GENERAL INFORMATION

Founded 1823 by Dr. George Birkbeck "for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs. from Oct. 1930. *Library* 29,000 vols., including special Science Departments. Complete *courses* for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog. and for the Inst. of Chem. examns., and matric. courses. *Fees* including subs. to Students' Union: Arts and Laws, £10; Science (incl. Hons Geog. in both Faculties), £12. Post-grad. work, 3 gs. to 5 gs. *Playing Field* (18 acres) at Greenford. *PUBLICATIONS*: *Calendar*, 1s.; *Report* (annual); *Haldan Memorial Lecture*; *Foundation Oration*; *Lodestone*, 6d. (Students, terminally)

## THE YEAR 1931-32

BENEFACTIONS. Nil.

NEW BUILDINGS. The Court of the Univ. has agreed to provide room for new buildings for the College on the Bloomsbury site on certain conditions.

NEW POSTS. A Univ. Professorship in Phys. Chem. tenable at the College. Part-time Lectureship in Jurispr.

STUDENTS. Part-time : total, 1175, including 347 graduates.

DEGREES OBTAINED. B.A., 42 ; M.A., 5 ; Ph.D., 3 ; B.Sc., 38 ; M.Sc., 1 ; D.Sc., 1 ; LL.B., 2.

# LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Address—Houghton St., Aldwych, W.C 2.  
Telegrams—"Poleconics, Estrand"

CHAIRMAN OF COURT OF GOVERNORS—Rt. Hon. Sir ARTHUR STEEL-  
MAITLAND, Bart., LL D., M P.

VICE-CHAIRMAN—Sir JOSIAH STAMP, G.B.E., D.Sc., LL.D., F.B.A.

DIRECTOR—Sir WM. H. BEVERIDGE, K C.B., M.A., B.C.L. Ox., LL.D.  
Aberd. and Chic., D.Sc. (Econ.).

SECRETARY—Mrs. MAIR, M.A.

LIBRARIAN—B. M. HEADICAR.

## PROFESSORS, LECTURERS, ETC.

- |   |   |
|---|---|
| <p><i>Accountancy</i>, v. also Com.<br/>Rowland, S. W., LL.B., F.C.A.<br/>Lectr.</p> <p><i>Anthropology</i>, <i>Social</i>, v. also<br/>Ethnology<br/>Malnowski, B., Ph.D. Cracow,<br/>D.Sc. Prof.<br/>Firth, R. W., M.A., Ph.D. (S).<br/><i>Banking and Currency</i>, v. also<br/>Commerce<br/>Gregory, T. E., D.Sc. (Econ.)<br/>Cassel Prof.<br/>Whale, P. B., M.Com. Birm., B.Sc.<br/>(Econ.) Reader.<br/>1 Asst.</p> <p><i>Commerce and Industry</i>, v. also<br/>Law, Transport<br/>Sargent, A. J., M.A. Ox. Prof.<br/>Plant, A., B.Sc. (Econ.), B.Com.<br/>Cassel Prof.<br/>Benham, F. C. C., B.Sc. (Econ.),<br/>Ph.D. Cassel Reader.<br/>Anstey, Vera, D.Sc. (Econ.) Lectr.<br/>Schwartz, G. L., B.A., B.Sc.<br/>(Econ.) Cassel Lectr.<br/>Paish, F. W., B.A. Camb.<br/>Cassel Lectr.<br/>3 Assts.</p> | <p><i>Economics</i>, v. also Russian<br/>Instns. and Econ.<br/>Robbins, L., B.Sc. (Econ.) Lond.,<br/>M.A. Ox. Prof.<br/>von Hayek, F. A., Dr. Jur., Dr. Sc.<br/>Pol. Vienna Tooke Prof.<br/>The Director (Descriptive E. and<br/>Public Admn.) Lectr.<br/>Dalton, Hugh, M.A. Camb., D.Sc.<br/>(Econ.) Reader.<br/>Hicks, J. R., M.A., B.Litt. Ox.<br/>Lectr.<br/>3 Assts.</p> <p><i>English</i><br/>Routh, H. V., M.A. Camb., D.Lit.<br/>Reader.<br/>1 Asst.</p> <p><i>Ethnology</i>, v. also Anthropology<br/>Seligman, C. G., M.D., F.R.C.P.,<br/>F.R.S. Prof.<br/>Joyce, T. A., O.B.E., M.A. Ox.<br/>(S).</p> <p><i>Finance</i>, v. Politics<br/><i>French</i>, v. Modern Languages<br/><i>French History and Institutions</i><br/>Vaucher, P., D. ès L. Paris Prof.</p> |
|---|---|

(S)=Special Lectr, not on the School Staff.



*Geography*, v. also Commerce  
 Jones, L. Rodwell, B.Sc., Ph.D.  
 Prof.  
 Stamp, L. D., B.A., D.Sc.  
 (Econ. Geog.) Reader.  
 Ormsby, Hilda, D.Sc. (Econ)  
 Reader.  
 2 Assts.

*German*, v. Modern Languages  
*History, Economic*, v. also Politics  
 Tawney, R. H., B.A. Ox, Litt D.  
 Manc. Prof.  
 Power, Eileen E. Le P., M.A.,  
 D.Lit. Prof.  
 Beales, H. L., M.A. Manc. Reader.  
 Judges, A. V., B.A. Lectr.  
 Postan, M., M.Sc. (Econ) Lectr.  
 Rowse, A. L., M.A. Ox. Lectr.  
 1 Asst.

*Imperial Economic Relations*  
 Coatman, J., C.I.E., B.A. Manc.  
 and Ox. Prof.  
 1 Asst

*International History*  
 Stevenson Research Prof.  
 Toynbee, A. J., B.A. Ox.  
 Webster, C. K., M.A., Litt.D  
 Camb, F.B.A.  
 Stevenson Prof.  
*International Relations*  
 Manning, C. A. W., M.A., B.C.L.  
 Ox. Cassel Prof.  
 Robinson, L. G., M.A. Ox. Reader.  
 2 Assts.

*Law*, v. p. 184  
*Legal History*  
 Plucknett, T. F. T., M.A., LL.B.  
 Camb. Prof.  
*Logic, Psychology, and Philo-  
 sophy*  
 Wolf, A., M.A. Camb., D.Lit.  
 (Logic and Scientific  
 Method) Prof.  
 Lectrs. on Industrial Psychology:  
 Bevington, Sheila, B.Sc. (Econ.) (S).

Harding, D. W., B.A. (S).  
 Myers, C. S., C.B.E., M.A., M.D.,  
 Sc.D. Camb., F.R.S. (S).  
 Smith, May, M.A., D.Sc. (S).

*Modern Languages* \*  
 Assts.:  
 Hicks, Grace, M.A. Camb.  
 Hicks, W. C. R., B.A., D.Phil.  
 Erlangen  
 Pickles, W., M.A. Leeds.

*Politics and Public Administra-  
 tion*  
 Laski, H. J., M.A. Ox. Prof.  
 Lees-Smith, Rt. Hon. H. B., M.A.  
 Ox, D.Sc. (Econ.)  
 (Pub. Admn.) Reader.  
 Finer, H., D.Sc. (Econ.)  
 (Pub. Admn.) Lectr.  
 Smellie, K. B., B.A. Camb.  
 (Pub. Admn.) Lectr.  
 2 Assts.

*Russian Institutions and Eco-  
 nomics*  
 Meyendorff, A., D.C.L. Durh.  
 Reader.  
 Turin, S. P. (S).

*Shipping*, v. Transport  
*Social Science and Administra-  
 tion*  
 Lloyd, C. M., M.A. Ox.  
 Head of Dept.  
 Eckhard, Edith V., M.A. Camb.  
 Senior Tutor.  
 Hart, B., M.D., F.R.C.P. (Psy-  
 chiatry) (S).  
 Davison, R. C., M.A. Ox. (S).  
 5 Assts

Lectrs. for Course in Mental  
 Health:  
 Burt, Prof. Cyril, D.Sc. (S).  
 Fildes, Lucy G., B.A., Ph.D. (S).  
 Hadfield, J. A., M.A., M.B., Ch.B.  
 (S).  
 Moodie, W., M.D., M.R.C.P. (S).

(S) = Special Lectr., not on the School Staff.

\* Preparatory for B.Sc. (Econ.), Final, or for B.Sc. (Econ.) Intermediate;  
 language courses for B.Com. are provided chiefly at King's and Univ. Colls.

Posthuma, Margaret, M.B., Ch.B.	<i>Statistics</i>	[Prof.
(S).	Bowley, A. L., Sc.D. Camb., F.B.A.	
Shrubsall, F. C., M.A., M.D. (S).	Rhodes, E. C., B.A. Camb., D.Sc.	Reader.
Tredgold, A. F., M.D., F.R.S.E.		
(S).	1 Asst.	
<i>Social Biology</i> [Research Prof.		
Hogben, L., M.A. Camb., D.Sc.	<i>Transport</i> , v. also Commerce and Law	
<i>Sociology</i> , v. also Anthropology	Stephenson, W. Tetley, M.A.	
Ginsberg, M., M.A., D.Lit.	Camb.	Cassel Reader.
Martin-White Prof.	Shanahan, E. W., D.Sc. (Econ.) (S).	
Marshall, T. H., M.A. Camb.	1 Asst.	
Reader.		

(S) = Special Lectr., not on the School Staff.

## GENERAL INFORMATION

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in History, Geography, Sociology, and Anthropology).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ., B.Com., LL.B., and B.A. (with Honours in Geog., Sociology, Anthropol., or History, or the Pass degree with Geog.), or to Higher degrees. Non-matriculated students can be registered for the Academic Diplomas in Geography, Psychology, Public Administration, and Sociology and Social Administration, and for the School Certificates in Social Science, in Mental Health, and in International Studies.

The lectures and classes at the School are open also, under certain conditions, to those who have not matriculated and do not wish to pursue a full Univ. course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women, and classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Edward Fry Library of *International Law*, and the Schuster Library of *Comparative Legislation*, also contains a number of special collections, such as the Acworth collection on Transport, the Hutchinson collection of works in all languages for and against Socialism, and other collections on Trade Unionism, Local Government, and Public Administration. The Library is open not only to those who are taking courses at the School, but, by permission of the Director, to any person desiring to utilize it for research or consultation.

The fee for a complete day course in Economics or Commerce, spread over 3 or 4 years, is 78 guineas; in Law the day fee is 26 guineas a year, and in Arts about £35 a year. In the case of evening students considerable reductions in these fees are made. The fees include privileges of Students' Common Rooms and Athletic Societies. Playing fields at Malden are available for members of the Students' Union.

Research Studentships, £200, in addition to fees, are offered from time to time, v. Appendix XXIII. 9. Scholarships are awarded on the results of the

University Intermediate Examns. There are entrance scholarships, bursaries, and valuable prizes.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, a journal of the Social Sciences, quarterly, 3s. 6d. (12s. 6d. p. a.); *Bulletin of the British Library of Political and Economic Science*, quarterly, 2s. per annum; *The Survey of English Law*, an annual bulletin of developments in English legislation, case-law, and legal literature, 10s. 6d.; *Annual Digest of Public International Law Cases*, about 35s.; *Clare Market Review* (Students, once a term). *Bulletin*—with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ. of Cambridge and Harvard Univ. Subs. £6 p.a. *School Calendar*, 2s. 6d. or (cloth) 3s. 6d. *Summary programmes and departmental pamphlets* free.

## THE YEAR 1931-32

**BENEFACTIONS.** The Trustees of the late Lord Leverhulme, an annual grant of £2000 for scholarships primarily at the undergraduate stage. The Noel Buxton Trustees, £400 for two years' Municipal Research.

**NEW BUILDINGS.** The first part of the New Library Block completed. It contains a new Statistical Library and Research Reading Rooms; tutorial and seminar rooms; and a new Library book-store on the "Snead" system. The demolition of the Passmore Edwards Hall commenced in order to make way for the second block in the Library reconstruction scheme. A second house in Clement's Inn Passage temporarily converted for the use of the Dept. of International Studies.

**NEW POSTS.** New Chairs in International Hist. and in Econ. Science and Statistics.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Public lectures were given by Prof. H. Kantorowicz, Prof. of Criminal Law and Procedure in the Univ. of Kiel, and by Pierre Denis, D. ès L., Univ. de Paris.

**RESIGNATIONS.** J. W. F. Rowe (Econ.), on appointment to a Lectureship in Econ. at Cambridge; Dr. E. Evans-Pritchard (Anthropol.), on appointment as Asst. Prof. of Sociol. in the Univ. of Egypt, Cairo.

**DEATHS.** Mr. W. A. S. Hewins (first Director); The Hon. W. Pember Reeves (third Director); Prof. Graham Wallas, Mr. G. Lowes Dickinson (members of the Court of Governors); Mr. L. R. Dicksee (Emer. Prof. of Accounting); Mr. E. G. Hemmant (Mercantile Law).

**STUDENTS.** Registered students, 2935, including 818 working for first degrees, 579 already graduates, and 1208 part-time.

**DEGREES OBTAINED.** B.Sc. (Econ.), 86; B.Com., 45; B.A., 4; LL.B., 6; M.Sc. (Econ.), 4; Ph.D., 19.

# SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT

Telegrams : College, Wye. Stations : Ashford (S.R.), 5 m., Wye (S.R.)  $\frac{1}{2}$  m.

CHAIRMAN OF GOVERNING BODY—EDWARD HARDY, J.P.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

ACTING SECRETARY AND BURSAR—A. H. BIRD, M.A., Dip.Hort. (Wye)

## TEACHING AND RESEARCH AND ADVISORY STAFF

### *Agriculture*

The Principal.

Vickers, V. R. S., Vice-Principal.

Fishwick, V. C., P.A.S.I., N.D.A.,  
N.D.D.

Bescoby, H. B., P.A.S.I., N.D.A.

Tinley, N. L., N.D.A., Dip. Agr.  
(Wye).

Hewison, N. V., Farm Manager.

### *Agr. Engineering*

Davies, C., T.D.A.

Smyth-Homewood, G. R. B., Dip.  
Agr. (Wye).

Wardley, W.

Martin, A. G.

Head, R. K.

Blezard, S. E.

### *Botany*

Parkinson, S. T., B.Sc.

Pearl, R. T., B.Sc., A.R.C.S., D.I.C.

Harrison, R. M., B.Sc., A.R.C.S.

### *Chemistry*

Harwood, S. D. F., M.A., F.I.C.

Cole, L. W., M.Sc. (Agric.).

Prowse, I. B., B.Sc. (Agric.), Dip.  
Agr. (Wye).

### *Economics*

Wyllie, J., B.Sc. (Agric.), N.D.A.,  
N.D.D.

### *Estate Management*

Haines, A. H., P.A.S.I.

Glossop, W. G. V.

### *Fruit-growing and Market Gardening*

Miskin, W.

Hunt, J. L., Dip. Hort. (Wye).

Lamberton, W.

### *Geology and Zoology*

Brade-Birks, S. G., D.Sc.

### *Poultry*

Rhodes, F. W., D.S.O.

Fermor, C. E.

### *Veterinary Science and Bacteriology*

M'Ewen, A. D., M.R.C.V.S.

Roberts, R. S., M.R.C.V.S.

## Research and Advisory Staff :

### *Chemistry*

Goodwin, W., M.Sc., Ph.D.

Martin, H., M.Sc., A.R.C.S., F.I.C.

Furieux, B. S., M.Sc. Dip. Agr.  
(Wye).

### *Dairy Bacteriology*

Barkworth, H., M.C.

### *Economics*

Wyllie, J., B.Sc. (Agric.), N.D.A.,  
N.D.D.

Knox, M.A., B.Sc., Agric. Dip. (Ox.)  
Halls, H. G.

### *Entomology*

Jary, S. G., B.A., Dip. Agric  
(Camb.).

### *Mycology and Hops*

Salmon, Prof. E. S., F.L.S.

Ware, W. M., M.Sc.

Burgess, A. H., B.Sc. (Agric.)  
Dip. Agr. (Wye).

## GENERAL INFORMATION

Founded 1894. A School of the Univ. in Science (Agric.).

LIBRARY, 4000 vols. LABORATORIES : Chem., Biol., Bact., Mycol., Entom., Vet. Sci.

The College (Residential) provides courses of instruction in Agriculture (British and Colonial) and Horticulture in preparation for the B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye), N.D.A., Dip. in Entomol. Special (2 yrs.) course for prospective planters in tropical countries. Farms, 585 acres, comprising arable, pasture, orchards, forestry, hop plantations, poultry, glass-houses, and nurseries.

The instruction meets the needs of young men who intend to farm at home or abroad, or desire posts as managers of estates, lecturers, and organizers in agric. and on the agric. staffs of Colonial Govts. The Appointments Bureau gives all possible assistance in placing qualified students in suitable employment. FEES, inclusive for board, lodging, and tuition : British subjects, £150 p.a. ; others, £180 p.a. Tuition only—British subjects, £85 ; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and Sussex.

PUBLICATIONS : *Journal, Prospectus*.

## THE YEAR 1931-32

BENEFACTIONS. C. B. Edgar Bequest, £4000 2½ per cent Consols, income for Agricultural Research at the College.

NEW BUILDINGS. New Chemical Laboratory.

DEATH. A. C. Lester (Secretary and Bursar), died Oct. 14, 1932.

STUDENTS. Full-time : total, 177, including 1 graduate.

DEGREES OBTAINED. B.Sc., 8 ; M.Sc., 1 ; Ph.D., 1.

# SCHOOL OF ORIENTAL STUDIES

Address—Finsbury Circus, E.C.2

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D.C.L. Ox.

DIRECTOR—Professor Sir E. DENISON ROSS, C.I.E., Ph.D. Stras., D.Lit.

DEAN—C. O. BLAGDEN, M.A., D.Litt.

SECRETARY—J. H. LINDSAY, M.A. Glas.

## PROFESSORS, LECTURERS, ETC.

### *African Phonetics and Linguistics*

Lectrs. :

Ward, Ida C., B.Litt. Durh.

Tucker, A. N., M.A. Cape, Ph.D.

Melzian, H. J., Ph.D. Berl.

Honikman, Miss B., M.A. Cape.  
Asst. Lectr.

### *Albanian*

Jopson, N. B., B.A. Camb. [Lectr.\*]

### *Amharic and Ethiopic*

Athill, Major L. F. I.

(Amh.) Lectr.\*

Weld, H., B.Litt. Ox. Lectr.\*

Harden, Rev. J. M., M.A., D.D.,

LL.D. (Eth.) Lectr.\*

Hirschfeld, Prof. H., Ph.D. Stras.

(Eth.) Lectr.\*

Rey, C. F. (Amh.) Lectr.\*

### *Arabic*

Gibb, H. A. R., M.A. Lond. and  
Edin. Prof.

Tritton, A. S., M.A., D.Litt. Lectr.

Iles, G. E., O.B.E., M.A. Camb.

(Sudanese) Lectr.

Gomaa, Sheikh M. M., B.A.

(Egyptian A.) Lectr.

Qadir Zafr Lectr.

### *Arabic Hist. and Lit.*

Fulton, A. S., M.A.

(Classical A.) Lectr.\*

### *Armenian*

Topalian, S. Lectr.

*Assamese and Khasi* [Lectr.\*]

Gurdon, Lt.-Col. P. R. T., C.S.I.

### *Bengali*

Page, W. S., O.B.E., B.A., B.D.

St. And. Reader.

### *Burmese*

Hertz, W. A., C.S.I. Lectr.

### *Chinese*

Johnston, Sir Reginald F.,

K.C.M.G., C.B.E., M.A. Ox.,

LL.D. Hongk. Prof.

Edwards, E. Dora, M.A., D.Lit.

(Mandarin) Reader.

Yumin Tao (Mandarin) Lectr.

Steele, J., M.A., D.Lit.

(Amoy & Swatow) Lectr.\*

Waley, A., B.A. (C. Poetry) Lectr.\*

### *Gujarati*

Kanhere, S. G. Lectr.

### *Hausa*

Bargery, G. P. Lectr.

Vischer, H. Lectr.\*

### *Hebrew, Modern*

Wartski, I., B.A. Lectr.

### *Hindustani*

Bailey, T. G., M.A., B.D., D.Litt.

Edin. (Urdu & H.) Reader

\* On panel of additional lectrs., not on regular staff.

Evans, D. E., B.A. (Vict.) Lectr.  
Leeson, G. E.

(Urdu & Hindi) Lectr.  
*History and Culture of British  
Dominions in Asia, especially  
India*, v. also Sansk.

Dodwell, H. H., M.A. Ox. Prof.  
Davies, C. C., Ph.D. Camb. Lectr.

*History, Buddhist*  
Davids, Mrs. C. A. R., M.A., D.Lit.  
Lectr.

*History of the Near East*  
Toynbee, A. J., B.A. Lectr.\*

*Iranian Studies*  
Bailey, H. W., M.A. West. Aust.,  
B.A. Ox. Lectr.

*Japanese*  
Isemonger, Commdr. N. E., R.N.  
(retd.) Lectr.  
Yoshitake, S. Lectr.  
Mere, G. Lectr.\*

*Law, Indian*  
FitzGerald, S. G. V., M.A. Reader.

*Law, Indian Administrative*  
Way, T. A. H. Lectr.\*

*Law, Ottoman* [Hon. Lectr.  
Fitzgerald, S. G. V., M.A.

*Malay*  
Blagden, C. O., M.A. Ox., D.Lit.  
Rangoon Reader.

*Marathi*  
Kanhare, S. G. Lectr.

*Pali*  
Stede, W., Ph.D. Leip. Lectr.

*Persian*  
Ross, Sir E. Denison, C.I.E., Ph.D.  
Strass., D.Lit. Prof.

Dārāb, G. H., Khan Lectr.  
Haig, Sir Wolseley, K.C.I.E.,  
C.S.I., C.M.G., C.B.E., M.A.  
Dublin Lectr.

*Phonetics*  
Lloyd-James, A., M.A. Camb,  
B.A. Wales Reader.  
Butlin, R. T., B.A. Lectr.

*Polynesian, Melanesian, Micro-  
nesian, and Papuan*  
Ray, S. H., M.A. Camb. Lectr.\*

*Sanskrit*  
Turner, R. L., M.C., M.A., Litt.D.  
Camb Prof.  
Barnett, L. D., M.A. Camb.,  
Litt.D. Vict.  
(S. & Anc. Indian Hist.)

Lectr.  
Stede, W., Ph.D. Leip. Lectr.  
Rylands, C. A., B.A. Camb.

Lectr.  
Kanhare, S. G. Lectr.  
Allan, J., M.A. Edin.  
(Oriental Palæog.) Lectr.\*

*Shan*  
Inman, Capt. H. J. Lectr.\*

*Siamese*  
Michell, J. Lectr.\*  
Wales, H. G. Q., M.A. Camb.  
Lectr.\*

*Sinhalese*  
Ratnasuriya, M. D., Ph.D. Lectr.

*Swahili*  
Ashton, Mrs. E. O. Lectr.

*Tamil and Telugu* [Lectr.  
Pathy, C. S. K., M.A. Edin.

*Tibetan* [Lectr.\*  
Shuttleworth, H. Lee, M.A. Ox.

*Turkish*  
Ali Riza Bey Lectr.  
Topalian, S. Lectr.

*Urdu, v. Hindustani*

\* On panel of additional lectrs., not on regular staff.

## GENERAL INFORMATION

Established by Royal Charter, 1916. A School of the Univ. in Arts.  
*Library*, 73,500 vols. *Fees*: 8 to 22 gs. per session; I.C.S. probationers,  
40 gs. *Scholarship* (Gilchrist) of £50 in Chinese. Teaching provided in more

than 50 languages and in the history, religions, and customs of Oriental and African countries. Special facilities for research work. PUBLICATIONS. *Calendar* (Sept.), 1s. 6d.; *Prospectus* (July); *Bulletin*, 6s. per part.

### THE YEAR 1931-32

BENEFACTIONS. £500 from Universities China Committee for Chinese Art and Archæol.; £3000 for 3 yrs., ending June 30, 1935, from Rockefeller Foundation for research in African Linguistics.

NEW DEPARTMENT. African Linguistics.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES AND OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. C. C. Berg (Leiden) on "Modern Movements of Islam in Indonesia"; Prof. G. Kampffmeyer (Berlin) on "Modern Movements of Islam in Egypt and Western Asia"; Prof. Louis Massignon (Paris) on "Modern Movements of Islam in Africa"; and Prof. G. Morgenstierne (Gothenburg) on "The Káfirs of the Hindu Kush." Sir E. Denison Ross visited several Univs. in the U.S.A. and lectured on Persian Hist., Art, and Lit.; and Mr. A. Lloyd-James visited Upsala and Oslo and lectured on Language Questions.

RETIREMENTS. A. Sabonadière and Dr. Wickremasinghe.

STUDENTS. Full-time: total, 30, including 30 graduates. Part-time: total, 386, including 173 graduates.

DEGREES OBTAINED. B.A., 4; M.A., 1; Ph.D., 9.



## BEDFORD COLLEGE FOR WOMEN

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RESIDENT TUTOR—Miss M. A. CULLIS, O.B.E., M.A. Ox.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

### PROFESSORS, LECTURERS, ETC.

*Botany* [Prof.  
Jones, W. Neilson, M.A. Camb.  
Halket, Miss A. C., B.Sc. Lectr.  
Garside, S., M.Sc. Manc. Lectr.  
1 Demr. (part-time).

*Chemistry, Inorganic and Physical*  
Spencer, J. F., Ph.D. Bres., D.Sc.  
Liv., F.I.C. Prof.  
Trew, Miss V. C. G., Ph.D.  
Jr. Lectr.  
2 Demrs.

*Chemistry, Organic* [Reader.  
Turner, E. E., M.A. Camb., D.Sc.  
Lesshe, Miss M. S., M.A., B.Sc.,  
Ph D. St. And. Jr. Lectr.  
1 Demr.

*Classics* [(Greek) Prof.  
MacGregor, J. M., M.A. Ox.  
Tarrant, Miss D., M.A. Camb.,  
M.A., Ph.D. Lond. Reader.  
Williamson, Harold, M.A. Ox.  
(Latin) Prof.  
Furness, Miss S. M. M., Class. Trip.  
Camb. Lectr.  
Andrewes, Miss M., M.A. Lectr.  
1 Asst. (part-time).

*Dutch*  
Geyl, P., Litt.D. Leyden Prof.  
Weevers, T. Lectr.

*Economics, v. Social Studies*  
*English Language and Mediæval Lit.*  
Thomas, P. G., M.A. Camb.,  
Litt D. Liv. Prof.  
1 Asst. (part-time).

*English Literature*  
Abercrombie, L., M.A. Liv.,  
D.Litt. Camb. Prof.  
Ellis-Fermor, Miss U. M., M.A.,  
B.Litt. Ox. Reader.  
Covernton, Miss A. B. Lectr.  
Butt, J. E., B.A., B.Litt. Ox. Lectr.

*French Language and Mediæval Lit.* [Sr. Lectr.  
Johnson, Miss F. C., M.A.  
Terry, Mrs., M.A. Lectr.

*French Literature*  
Eccles, F. Y., M.A. Ox. Prof.  
Legros, René P., M.A. Edin. and  
Ox. Reader.

*Geography*  
Hosgood, Miss B., B.A. Reader.  
Smee, Miss D. K., M.A., Ph.D.  
Lectr.

Timberlake, Miss E. M., B.Sc.  
Jr. Lectr.  
2 visiting Lectrs.

*Geology* [Reader.  
Hawkes, L., D.Sc. Durh., F.G.S.  
Dix, Miss E., M.Sc. Wales Lectr.  
1 Demr (part-time).

*German*  
Robertson, J. G., M.A. Glas., Ph D.  
Leip., Hon Litt.D. Manc. and  
Dub., F.B.A. Prof.  
Massey, Miss I. M., Ph.D. Marb.  
Reader.  
Haltenhoff, A. G. Lectr.

*History, Ancient* [Reader.  
Cary, M., M.A., D.Litt. Ox.

*History, Modern*  
Penson, Miss L., Ph.D. Prof.  
Tooley, Miss M. J., M.A. Lectr.  
Darlington, R. R., Ph.D. Reading  
Lectr.  
1 Asst.

*Italian*  
Dobelli, S'rina E. B. Sr. Lectr.  
Jeffery, Miss V. M., D.Lit. Lectr.

*Mathematics* [Prof.  
Hilton, Harold, M.A., D.Sc. Ox.  
Marshall, J., M.A., D.Sc. St. And.  
Reader.  
Fowler, Mrs., M.A.  
Lectr. (part-time).  
Jervis, Miss S. D., M.Sc. Lectr.

*Philosophy*  
Edgell, Miss B., D.Litt. Wales  
Ph.D. Würz. Prof. (Psych.)  
Stebbing, Miss L. S., D.Lit. Reader  
Harrower, Miss M. R. Temp. Lectr  
1 Asst. (part-time).

*Physics*  
Wilson, W., Ph.D. Leip., D.Sc.  
F.R.S. Prof.  
Saltmarsh, Miss M. O., Math. Trip  
and Nat. Sci. Trip. Camb.  
Ph.D. Reader  
2 Demrs.

*Physiology*  
Edkins, Mrs., D.Sc. Reader.  
Murray, Miss M. M. A., M.Sc.  
(Biol. Chem.) Lectr  
1 Demr.

*Social Studies and Economics*  
Reid, Mrs., M.A. Camb. Director.  
The Principal (Econ.) Lectr  
Williams, Mrs., B.A. Manc.  
(Econ.) Lectr.  
Pinchbeck, Miss I., M.A., Ph.D.  
(Econ Hist.) Lectr. (part-time).  
2 Visiting Lecturers.

*Zoology*  
Boulenger, C. L., M.A. Camb.,  
D.Sc. Birm. Prof.  
Hett, Miss M. L., B.Sc. Lectr.  
1 Demr.

## GENERAL INFORMATION

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Werner Reading-Room contain 44,399 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 18. Students are prepared for all exams of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 75 students in the Coll. and 152 at the College Houses. FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A.—31 to 38 gs.; M.A.—8½ to 15 gs.; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—76 to 100 gs. Union Society—15s.; Athletic Union—25s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; one (Amy Lady Tate) for research in Arts or Science,

£125 p.a. for 2 yrs.; Gamble (tuition fees); Notcutt Travelling Studentship, £200 for session 1933-34.

PUBLICATIONS: *Calendar*, post free, 3s. 6d.; B.C. Magazine (Students).

## THE YEAR 1931-32

BENEFACTIONS. An anon. prize of £10 for the Dept. of Zool. The prize has been promised for 7 yrs. to enable a student to attend a vacation course in Marine Biol. Bequest of £500 from the late Mrs. Hugo Muller, a Governor of the Coll.

NEW BUILDINGS. Two rooms have been added to the Residence. Library reconstructed from a one-storied building into a two-storied building with a Stack Room on the ground floor and a Reading Library and addnl. offices on the first floor.

NEW POSTS. A Jr. Lectr. and a Demr. instead of 2 Demrs. in the Dept. of Organic Chem.

CHANGE IN REGULATIONS. Candidates for the Entrance Examn. now do their written papers at their schools.

DEATH. Miss V. Hazlitt (Psychol.) died April 19, 1932.

STUDENTS. Full-time: total, 659, including 36 graduates. Part-time: total, 22, including 14 graduates.

DEGREES OBTAINED. B.A., 105; B.Sc., 52; M.A., 5; M.Sc., 4; Ph.D., 2 (Arts); D.Lit., 1; D.Sc., 1.

# ROYAL HOLLOWAY COLLEGE FOR WOMEN

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SECRETARY TO THE GOVERNORS—Miss U. R. DOLLING.

PRINCIPAL'S ASSISTANT AND LIBRARIAN—Miss U. BURTON, B.A.

## PROFESSORS, LECTURERS, ETC.

*Botany* [Sr. Lectr.  
Blackwell, Miss E. M., M.Sc. Liv.  
Madge, Miss M. A. P., Ph.D., B.Sc.  
Asst. Lectr. & Demr.

*Chemistry*  
Moore, T. S., M.A. Ox. Prof.  
Boyle, Miss M., D.Sc. Staff Lectr.  
Ross, Miss K. I., B.A., B.Sc. Ox.  
Asst. Lectr. & Demr.

*Classics*  
Sleeman, J. H., M.A. Prof.  
Taylor, Miss M. E. J., M.A. Dub.  
Sr. Lectr.  
Woodward, Miss A., M.A. Lectr.

*English* [Sr. Lectr.  
Willcock, Miss G. D., M.A.  
Green, Miss H. A., M.A. Lectr.  
Gardner, Miss H. L., B.A. Ox.  
Asst. Lectr.

*French* [Sr. Lectr.  
Honey, Miss M. E. D., M.A.  
McWilliam, Miss N., M.A. Edin.  
Lectr.

North, Miss M. E., M.A. Dub.  
Asst. Lectr.  
Olgiati, Mlle. D. (Conversation)  
Assistante.

*German*  
Delp, Miss W. E., D. de l'Univ.  
Paris Sr. Lectr.  
Richey, Miss M. F., M.A., D.Lit.  
Asst. Lectr.

*History* [Prof.  
Johnstone, Miss Hilda, M.A. Manc.  
Powell, Miss I. G., M.A. Lectr.  
Smalley, Miss B., B.A. Ox., Ph.D.  
Manc. Asst. Lectr.

*Mathematics* [Prof.  
Baker, B. B., D.Sc. Edin., M.A.  
Rowell, Miss E. M. Sr. Lectr.  
Pick, Miss M., M.A. Lectr.  
The Principal Lectr.

*Physics*  
Horton, F., Sc.D. Camb., M.Sc.  
Birm., D.Sc., F.R.S. Prof.  
Smith, C. J., Ph.D. Lectr. & Demr.  
Huggett, Miss E. D., B.A. Camb.  
Asst. Demr.

## Art

*Drawing and Painting*  
Carey, C. W. Teacher.

*Music* [Lectr. & Director.  
Barker, Miss S. M.  
3 Visiting Teachers.

## GENERAL INFORMATION

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Sci. LIBRARY, 23,300 vols. LABS.: Bot., Chem., Physics: Botanic Gardens. Area, 95 acres. Residential accommodation for over 200 students and staff. Courses for first and higher degrees in Arts and Sci. Incl. FEES: £144 a yr. Entrance Schps., £80, etc.; post-graduate studentships. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Old Students' Assn.).

## THE YEAR 1931-32

STUDENTS. Full-time: total, 209, including 6 graduates.

DEGREES OBTAINED. B.A., 44; B.Sc., 24.

# WESTFIELD COLLEGE, HAMPSTEAD

Address—Kidderpore Avenue, N.W. 3.

CHAIRMAN OF COUNCIL—The Rt Hon Sir THOMAS INSKIP, C B E.,  
K.C., M.P.

PRINCIPAL—Miss D. CHAPMAN, M A. St. And

## PROFESSORS, LECTURERS, ETC.

<i>Biochemistry</i>		<i>French</i>	[Reader.
McKie, Miss P. V., Ph.D. Wales,		Turquet, Mme., M.A., D.Lit.	
D.Sc.	Lectr		
<i>Botany</i>		Lecturers:	
Delf, Ellen M., D.Sc., F.L.S	[Reader..	Crosland, Mrs., M.A. (part-time)	
Grubb, Miss V. M., M.Sc., D.Sc.		Turquet, A., L ès L., Chev. Lég.	
	Lectr.	d'H. (part-time).	
Martin, Miss M T., M Sc	Demr	<i>History</i>	
<i>Classics</i>		.....	Prof.
Lecturers		Martin, Miss E. C., M.A., Ph.D.	
Parker, Miss C. E., M.A. Ox.		(Imp H.)	Reader.
Dyson, G. W., M A. Camb		Thornton, Miss G. A., Ph D.	
Barratt, Miss C., M.A. Ox.			Lectr.
<i>English Lang. and Lit.</i>		<i>Mathematics, Pure and Applied</i>	
Davis, B. E. C., M.A Ox.	Reader.	Stanley, Miss G. K., M.Sc., B.Sc.	
Sejeantson, Miss M. S., M.A. Liv.,		Ox.	Reader.
D.Phil. Ox.	Reader.	Sargent, Miss W. L. C., M A. Camb.	
Lea, Miss K. M., M.A. Ox.	Lectr.		Lectr.

## GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown, the college is undenominational, but the Principal must be a member of the Church of England. Near the S.W. corner of Hampstead Heath; residential accomm. for 116 students. A School of the Univ. in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Fac. of Sci. in Bot. and Maths. are provided, as well as in Arts. Two Research Studentships are offered each year to graduates of any Univ., v. App. XXIII. 1. *Fees*: tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn. *Publications*: *Prospectus* (July); *Report* (October); *Hermes* (Students' Mag.).

## THE YEAR 1931-32

RETIREMENT. Miss E. J. Fry (Botany).

STUDENTS. Full-time: total, 154, including 10 graduates.

DEGREES OBTAINED. B.A., 32; B.Sc., 9; M.A., 1; Ph D., 2.

# KING'S COLLEGE OF HOUSEHOLD AND SOCIAL SCIENCE

Address—Campden Hill Road, W.8.

WARDEN—MISS HELENE REYNARD, M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>	[Reader.	Craig, Marjorie	Asst. Lectr
Esdaile, Philippa C., D.Sc.			
Crofts, Doris, M.Sc.	Lectr.	<i>Hygiene and Bacteriology</i>	
		Proctor, Ruth, M.A.,	M.B
<i>Chemistry</i>		Ch.B., D.P.H.	Lectr
Tinkler, C. Kenneth, D.Sc.	Prof.	Dukes, C. E., O.B.E., M.D.	Edin.
Jackman, Agnes, B.Sc.	Lectr.	M.Sc., D.P.H.	Lectr
Paterson, M. Joyce, M.A.		<i>Physiology</i>	
	Asst. Lectr.	Mottram, V. H., M.A.	Prof
<i>Economics and Business Affairs</i>		Hartwell, Gladys, D.Sc.	Lectr
Reynard, Helene, M.A.	Lectr.	Clifford, Winifred M., M.Sc.	
Stanners, Harold, B.Sc. (Econ.)			Asst. Lectr
	Lectr.	<i>Physics</i>	
<i>Household Work</i>		Dillon, Teresa J., M.Sc.	Lectr
Lindsay, Jessie	Sr. Lectr.	Andrewes, U., Ph.D.	Asst. Lectr
Wood, Edith	Lectr.	<i>Psychology</i>	
Tress, Helen	Lectr.	Jenkin, A M, M A.	Lectr

## GENERAL INFORMATION

Formerly a dept. of King's Coll. for Women; since 1928 an independent School of the Univ. Residential accommodation (Queen Mary's Hostel) for 120 students.

Full degree courses for B.Sc. in Household and Social Science. *Fees:* For tuition, 45 gs.; residence, 75 to 93 gs. per session.

*Publication:* *Students' Magazine.*

## THE YEAR 1931-32

**NEW BUILDINGS.** Extensions to Physics Dept. and Household Arts Dept completed.

**NEW DEPARTMENT AND POST.** Dept. and part-time Lectureship in Psychology instituted.

**OTHER DEVELOPMENTS.** Alternative Degree Course for Social Workers started.

**STUDENTS.** Full-time: total, 200, including 2 graduates. Part-time, 7.

**DEGREES OBTAINED.** B.Sc., H. and Soc. Sc., 18.

# THEOLOGICAL SCHOOLS OF THE UNIVERSITY

## APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus :

HACKNEY AND NEW COLLEGE, HAMPSTEAD (N.).	RICHMOND COLLEGE (R.)
KING'S COLLEGE THEOLOGICAL DEPT. (KT.).	ST. JOHN'S HALL, HIGHBURY (J.)

### *Theology*

*Bicknell, Rev. Prof. E. J., M.A., D.D. Ox. (KT.).	*Jenkins, Rev. Prof. C., M.A. Ox., F.S.A. (KT.).
*Clogg, Rev. F. B., M.A. Camb., B.D. Reader (R.).	Nowell-Rostron, Rev. S. (J.).
Davies, Rev. W. A., M.A. Ox. and Wales, B.D. (N.).	Oosterley, Rev. W. D. E., D.D., M.A. (KT.).
Dearmer, Rev. P., D.D. Ox. (KT.).	*Relton, Rev. Prof. H. M., D.D. (K.T.).
Farrer, Rev. A. J. D., B.A. (N.).	Robinson, Rev. H. W., D.D. Edin., M.A. Ox. and Edin. (N.).
Garvie, Rev. A. E., M.A. Glas. and Ox., D.D. Glas., D.Th. (N.).	*Smith, Rev. Prof. C. R., B.A., D.D. (R.).
Gilbert, Rev. T. W., M.A., D.D. Ox. (J.).	Smith, Rev. F. H., D.D. (KT.).
Hanson, Rev. R., M.A. Ox., B.D. (KT.).	Smith, Rev. H., M.A. Camb., D.D. (J.).
*Hardman, Rev. Prof. O., D.D., M.A. (KT.).	Tasker, Rev. R. V. G., M.A. Camb. (KT.).
Hollis, Rev. F. J., D.D. (KT.).	*Waterhouse, Rev. Prof. E. S., M.A., D.D. (R.).
*Hooke, Prof. S. H., M.A. Ox., B.D., B.A. (KT.).	Woolf, Rev. B. L., M.A., Ph.D., B.D., B.Sc. Edin. (N.).

\* Appointed Teacher.

## GENERAL INFORMATION

HACKNEY AND NEW COLLEGE, HAMPSTEAD (Congregational), Finchley Road, N.W.3. Principal—Rev. A. E. Garvie, M.A., D.D., D.Th. Secretary—Rev. H. Staines, M.A., B.D.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 75,000 vols. Sessional fee, 6 gs. for each class. "Internal" students—29.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Dean—Rev. R. Hanson, M.A., B.D. Secy.—S. T. Shovelton, M.A. Founded 1829 (v. King's Coll.). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students:

fee for residence, £22 per term. Full-time students, 240; internal student of the University, 87. The College grants A.K.C. Diploma in Theology.

RICHMOND COLLEGE, Surrey. Principal—Rev. Prof. C. Ryder Smith B.A., D.D. Secy. of Staff—Rev. L. F. Church, B.A., Ph D.

Opened 1843. Students are accepted candidates for Ministry of the Methodist Church, but other Univ. students may be admitted. Residential accommodation for 60. "Internal" students—21. Diploma students—42.

ST. JOHN'S HALL, Highbury, Avenell Rd., N.5 (Church of England) Principal—Rev. T. W. Gilbert, M.A., D.D. Hon. Secy. of Council—Rev. Prebendary H. W. Hinde, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for L.Th. Durham as well as for B.D. of London *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 70 students.



## MEDICAL SCHOOLS OF THE UNIVERSITY

### RECOGNIZED TEACHERS

*Note.*—In the following list the names of the Medical and other Schools are indicated by letters thus :

ST. BART.'S HOSPL. MED. COLL. (B.).	LISTER INSTITUTE (LI.).
BETHLEM ROYAL HOSPL. (Bm.).	LONDON (R F.H.) SCH. OF MED.
CANCER HOSPL. (Can.).	FOR WOMEN (LW.).
CHARINGCROSS HOSPL. MED. SCH. (C.).	MIDDLESEX HOSPL. MED. SCH. (M.).
ROYAL DENTAL HOSPL. OF LOND	MAUDSLEY HOSPL. (My.).
SCH. OF DENT. SURG. (D.).	SCH. OF PHARMACY (P.).
GUY'S HOSPL. MED. SCH. (G.).	ST. GEORGE'S HOSPL. MED. SCH. (SG.).
LONDON SCHOOL OF HYGIENE	ST. MARY'S HOSPL. MED. SCH. (SM.).
AND TROPICAL MEDICINE (H.).	ST. THOMAS'S HOSPL. MED. SCH. (T.).
KING'S COLL. HOSPL. MED. SCH. (KM.).	UNIV. COLL. HOSPL. MED. SCH. (UM.).
LONDON HOSPL. MED. COLL. (L.).	WESTMINSTER HOSPL. MED. SCH. (W.).

and names of certain institutions having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION (BH.).	ROYAL LONDON OPHTHALMIC HOSPL. (Oph.).
HOSPL. FOR SICK CHILDREN (Sch.).	NATIONAL INSTITUTE FOR MEDICAL RESEARCH (MR.).
NATIONAL HOSPL. FOR DISEASES OF THE NERVOUS SYSTEM (NH.).	

#### *Anæsthetics*

Boyle, H. E. G., M.R.C.S., L.R.C.P. (B).
Chaldecott, J. H., L.R.C.P. (SM.).
Daly, A. S., L.R.C.P., M.R.C.S. (M.).
Gandy, E. W., O.B.E., B.A. Camb, L.R.C.P., M.R.C.S. (W).
Hughes, C. H. M., O.B.E., M.B., B.S., L.R.C.P., M.R.C.S. (KM.).
Idris, A. E. W., L.R.C.P., M.R.C.S. (M.).
Jones, W. H., M.B., B.S., L.R.C.P., M.R.C.S. (C.).
Mennell, Z., M.B., L.R.C.P., M.R.C.S. (T.).
Richards, H. A., M.A. Camb. (KM.).

Shipway, Sir F. E., K.C.V.O., M.A., M.D., B.Ch. Camb (G).
Sprott, Barbara, M.B., B.S. (LW.).

#### *Anatomy*

Clark, W. E. Le G., F.R.C.S.	[Prof. (T.).]
Harris, H. A., B.Sc. Wales, D.Sc., M.B., B.S., L.R.C.P., M.R.C.S. (Clin. A.)	Prof. (UM.).
Frazer, J. E. S., F.R.C.S.	Prof. (SM.).
Johnston, T. B., M.B., Ch.B. Edin.	Prof. (G.).
Keene, Mrs. M. F. L., M.B., B.S.	Prof. (LW.).
Mitchiner, P. H., M.D., M.S., L.R.C.P., F.R.C.S. (T.).	

(B), (Bm.), etc., v. *Note* above.

- Robinson, R. H. O. B., M.A., M.B.,  
M.Ch. Camb., F.R.C.S. (T.).
- Stibbe, E. P., F.R.C.S., L.R.C.P.  
(L.).
- Woollard, H. H., M.D., B.S. Melb.,  
D.Sc. Prof. (B.).
- Wright, W., D.Sc. Bir., M.B., Ch.B.  
Manc., F.R.C.S. Prof. (L.).
- Yeates, T., M.B., C.M. Edin., B.Hy.,  
D.P.H. Durh. Prof. (M.).
- Bacteriology*, v. also Path.
- Bamforth, J., M.D., Ch.B., D.P.H.  
Liv., M.R.C.P., M.R.C.S. (T.).
- Bulloch, W., M.D., C.M., LL.D.  
Aberd., F.R.S. (recogd. in  
Path.) Goldsmiths' Prof. (L.).
- Douglas, S. R., F.R.S., L.R.C.P.,  
M.R.C.S. (MR.).
- Dudgeon, L. S., C.M.G., C.B.E.,  
F.R.C.P. (T.).
- Dukes, C. E., O.B.E., M.D. Edin.,  
M.Sc., D.P.H. (KM.).
- Duncan, J. T. (H.).
- Eyre, J. W. H., M.D., M.S. Durh.,  
D.P.H. Camb. Prof. (G.).
- Fleming, A., M.B., F.R.C.S. (SM.).
- Freeman, J., M.A., D.M., B.Ch.  
Ox. (SM.).
- Garrod, L. P., M.A., M.B., B.Ch.  
Camb., M.R.C.P., M.R.C.S.  
(B.).
- Goadby, Sir Kenneth W., K.B.E.,  
L.R.C.P., M.R.C.S., L.D.S.,  
D.P.H. Camb. (UM.).
- Hunt, E. L., D.P.H. Camb., M.B.,  
B.S., L.R.C.P., M.R.C.S. (also  
in Path.) (SG.).
- Ledingham, J. C. G., C.M.G.,  
M.A., M.B., Ch.B., D.Sc.  
Aberd., F.R.S. Prof. (LI.).
- Lovell, R., M.Sc. Manc.,  
M.R.C.V.S., D.V.S.M. (H.).
- Nabarro, D. N., B.Sc., M.D.,  
D.P.H., F.R.C.P. (S.Ch.).
- Okell, C. C., M.C., B.A., M.B.,  
B.Ch. Camb., M.R.C.S.,  
M.R.C.P., D.P.H., D.T.M. &  
H. Prof. (UM.).
- Petrie, G. F., M.D., Ch.B. Aber  
(LI).
- Rosher, A. B., L.R.C.P., M.R.C.S.  
D.P.H. (C).
- Ross, Joan M., M.B., B.S.  
M.R.C.P., M.R.C.S. (LW).
- Schutze, H. L., M.D. Wurzb. (LI).
- Topley, W. W. C., M.A., M.D., B.C.  
Camb., F.R.C.P., M.R.C.S.  
Prof. (H).
- Whitby, L. E. H., M.A., M.I.  
M.R.C.P., M.R.C.S., D.P.H.  
(M).
- Wilson, G. S., M.D., B.S.  
M.R.C.P., M.R.C.S., D.P.H.  
Prof. (H).
- Wright, Sir A. E., K.B.E., C.B.  
Prof. (SM).
- Bio-Chemistry*, v. also Chem  
Path.
- Dodds, E. C., M.V.O., M.D., B.S.  
D.Sc., M.R.C.S. Prof. (M).
- Gulland, J. M., M.A. Ox., D.S.  
Ed., Ph.D. St. Andr.  
Reader (LI).
- Lawrence, R. D., M.A., M.D., Ch.  
Aberd. (KM).
- McLean, Ida S., D.Sc. (LI).
- Raistrick, H., B.A. Camb., D.S.  
Leeds Prof. (H).
- Reeves, H. G., D.Sc., M.Sc., Ph.  
Burm. (F).
- Robertson, A., M.B., B.Ch. Edi  
Reader (H).
- Robison, R., Ph.D. Leip., D.S.  
F.I.C. Prof. (LI).
- Ryffel, J. H., M.A.; B.Ch. Cam  
B.Sc., F.I.C. (recogd.  
Forensic Med.) Reader (C).
- Wooldridge, W. R., Ph.D. Cam  
M.Sc., M.R.C.V.S. (F).
- Zilva, S. S. (LI).
- Biology*
- Cunnington, W. A., M.D. (F).
- Evans, T. J., M.A. Ox. (C).
- Leigh-Sharpe, W. H., B.Sc. (SM).
- Mudge, G. P., A.R.C.S. (L., LW).

- Rushton, W., A.R.C.S. (T.).  
 Woodger, J. H., B.Sc. Reader (M.).
- Chemistry*  
 Candy, H. C. H., B.A., B.Sc., F.I.C. (L.).  
 Ellis, G. W., O.B.E., D.Sc. (SM.).  
 Gibson, C. S., O.B.E., M.A. Ox. and Camb., B.Sc. Ox., M.Sc. Manc., F.I.C. Prof. (G.).  
 Hurtley, W. H., D.Sc. Reader (B.).  
 Lowndes, J., F.I.C. (T.).  
 Plimmer, R. H. A., D.Sc. Prof. (T.).  
 Tuck, W. B., D.Sc. Prof. (M.).  
 Widdows, Sybil T., B.Sc., F.I.C. (LW.).
- Chemistry as applied to Hygiene*  
 Delafield, M. E., B.A., M.B., B.Ch., D.P.H. Camb., L.R.C.P., M.R.C.S. Prof. (H.).
- Chemistry, Pathological*, v. also Bio-Chem.  
 de Wesselow, O. L. V., M.B., B.Ch. (T.).
- Harington, C. R., B.A. Camb., Ph.D. Edin. Prof. (UM.).  
 Cook, J. W., Ph.D., D.Sc. Reader (Can.).
- Lynch, G. R., O.B.E., M.B., B.S., D.P.H. (SM.).  
 Mann, S. A., B.Sc. (My.).
- Chemistry, Physiological*  
 Gardner, J. A., M.A. Ox., F.I.C. Reader (LW., SG.).
- Dentistry*, v. *infra*  
*Dermatology*  
 Barber, H. W., B.Ch., M.B., M.A. Camb., F.R.C.P. (G.).  
 Davis, H. D., B.A., B.M., B.Ch. Ox., F.R.C.S. (LW.).  
 Dore, S. E., M.A., M.D., B.Ch. Camb., F.R.C.P. (W., T.).  
 Drake, J. A., M.D., D.P.H. (KM.).  
 Freshwater, D. H., M.A., M.D. Camb. (SG.).  
 Graham-Little, Sir E., B.A. Cape, M.D., F.R.C.P., M.R.C.S., M.P. (SM.).
- Gray, A. M. H., C.B.E., M.D., B.S., F.R.C.S., F.R.C.P. (UM.).  
 MacCormac, H. (v. also Med., *infra*) (M.).  
 O'Donovan, W. J., M.D. (L.).  
 Roxburgh, A. C., M.A., M.D., B.Ch., F.R.C.P. (B.).  
 Thomson, M. S., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (KM.).
- Wigley, J. E. M., M.B., B.S. Melb., M.R.C.P. (C.).
- Dietetics* [Prof. (T).]  
 Cowell, S. J., B.A., M.B., B.Ch. Camb., M.R.C.P., M.R.C.S.
- Diseases of Children*  
 Barrington-Ward, L. E., M.Ch. Edin., F.R.C.S. (Sch.).  
 Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R.C.P. (G.).  
 Chodak-Gregory, Hazel, M.D., M.R.C.P. (LW.).  
 Frew, R. S., M.D., Ch.B. Edin. (Sch.).
- Hamilton, C. K. J., M.A., M.B., B.Ch. Ox., M.R.C.P., M.R.C.S. (C.).  
 Harris, C. F., M.D., M.R.C.P., M.R.C.S. (B.).  
 Hutchison, R., M.D., C.M. Edin., F.R.C.P. (Sch.).  
 Jewesbury, R. C., M.A., M.D. Ox., F.R.C.P. (T.).  
 Maitland-Jones, A. G., M.D., B.S. (L.).  
 Paterson, D. H., B.A., M.D. Edin., Ch.B. Manitoba, F.R.C.P. (W.).
- Pearson, W. J., D.S.O., M.C., M.A., D.M., B.Ch. Ox., F.R.C.P. (UM.).  
 Poynton, F. J., M.D., F.R.C.P. (Sch., UM.).  
 Sheldon, W. P. H., M.D., M.R.C.P. (KM.).

Tallerman, K. H., M.A., M.D.  
Camb., M.R.C.P., M.R.C.S.  
(L).  
Thursfield, J. H., D.M., M.A. Ox.,  
F.R.C.P. (Sch., B.).

*Entomology, Medical*

Buxton, P. A., M.A. Camb.,  
L.R.C.P., M.R.C.S.  
Reader (H).  
Wigglesworth, V. B., M.A., B.Ch.  
Camb. (H.).

*Epidemiology and Vital Statistics*

Edge, P. G., O.B.E. (H).  
Greenwood, M., D.Sc., F.R.C.P.,  
M.R.C.S., F.R.S. Prof (H).  
Woods, Hilda M. (H.).

*Forensic Med., v. also Bio-Chem.,  
Chem.—Path.*

Brend, W. A., M.A. Camb., M.D.,  
B.Sc. (C).  
Day, H. B., M.D., B.S., F.R.C.S.  
(KM.).

Jones, G., M.A., B.M., B.Ch. Ox.,  
L.R.C.P., M.R.C.S., L.S.A.,  
D.P.H. (L).  
Lynch, G. R., M.B., B.S., D.P.H.  
(W.).

Lyster, R. A., M.D., Ch.B., B.Sc.  
(Pub. Health), D.P.H. Birm.,  
B.Sc. (also in Hyg.) (B.).

Ryffel, J. H., M.A., B.Ch. Camb.,  
B.Sc., F.I.C. Reader (G).  
Smith, E., M.D., L.R.C.P.,  
M.R.C.S. (T).

Spilsbury, Sir Bernard H., M.A.,  
B.M., B.Ch. Ox. (LW.).

Willcox, Sir Wm. H., K.C.I.E.,  
C.B., C.M.G., M.D., B.Sc.,  
F.R.C.P. (SM.).

*Gynaecology and Obstetrics*

Banister, J. B., M.A., M.D., B.Ch.,  
F.R.C.P. (C).  
Barris, J. D., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (B).  
Bonney, W. F. V., M.D., M.S.,  
B.Sc., F.R.C.S. (M.).

Bourne, A. W., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (SM).  
Brews, R. A., M.D., M.S.,  
M.R.C.P., F.R.C.S. (L).  
Browne, F. J., M.D., Ch.B. Aberd.,  
D.Sc. Edin.

Prof. of Obst. Med. (UM).  
Chapple, H., M.A., M.Ch., M.B.  
Camb., B.Sc., F.R.C.S. (G).  
Cook, F., M.B., B.S., B.Sc.,  
F.R.C.S. (G).

Dearnley, Gertrude, M.D. (LW).  
Dodd, S., M.A., M.B., B.Chir.  
Camb. (W).  
Donaldson, M., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (B).  
Gillhatt, W., M.D., M.S., F.R.C.S.  
(KM.).

Goodwin, A., M.D., B.S., F.R.C.S.  
(W).  
Hedley, J. P., M.A., M.Ch., M.B.  
Camb., F.R.C.P., F.R.C.S.  
(T).

Holland, E., M.D., F.R.C.S.,  
F.R.C.P. (L).  
Lack, V. J. F., M.B., B.S. (L).  
McIlroy, Prof. Dame Anne L.,  
D.B.E., M.D., B.S., D.Sc.  
Glas. Prof. (LW).

McNair, A. J., LL.M., M.A. Camb.  
(G).  
Palmer, A. C., O.B.E., M.B., B.S.,  
F.R.C.S. (KM).

Roques, F. W., M.A., M.Ch., M.D.  
Camb. (M).

Roy, D. W., M.A., M.B., B.Ch.  
Camb., F.R.C.S. (SG).

Shaw, W., M.A., M.B., Ch.B.  
Camb., F.R.C.S. (B).  
Stevens, T. G., M.D., F.R.C.S.  
(SM).

Taylor, H., M.A., M.B., B.Ch.  
Camb., F.R.C.S. (SG).

White, C., M.D., F.R.C.P.,  
F.R.C.S. (UM).

Williams, E. H. G., B.A., M.D.,  
B.Ch. Camb., M.R.C.P.,  
M.R.C.S. (C).

Williams, L. H. W., M.D., M.S.,  
F.R.C.S. (SM.)

*Helminthology*

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D.P.H. Prof. (H.).

Lyster, R. A. (v. Forensic Medi-  
cine) (B).

Parkinson, G. S., L.R.C.P.,  
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Porter, C., M.D., C.M., B.Sc.  
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Shinnie, A. J., M.D. Aberd.,  
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*Medicine*, v. also Chem.—Path.,  
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- Miller, R. H., M.D., B.S., F.R.C.P.  
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- Ryle, J. A., M.D. (G.).
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- Smith, K. S., M.D., B.S., M.R.C.P.  
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- Stewart, T. G., M.D., Ch.B. Edin.,  
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- Stott, A. W., M.A., B.Ch. Camb.  
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- Thompson, H. T., M.A., M.D.,  
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- Tidy, H. L., M.A., D.M., B.Ch.  
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- Torrens, J. A., M.D., B.S.,  
F.R.C.P. (SG.).
- Wall, R. C. B., D.M., B.Ch., M.A.  
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- Ward, G. E. S., M.D., B.S.,  
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- Warner, E. C., M.D., B.S., B.Sc.,  
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- de Wesselow, O. L. V.S., B.A.,  
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Prof. (T.).
- Willcox, Sir W. H., K.C.I.E., C.B.,  
C.M.G. (SM.).
- Wilson, C. M., M.D., B.S., M.R.C.S.,  
F.R.C.P. (SM.).
- Witts, L. J., M.D., Ch.B. Manc.,  
M.R.C.P. (G.).
- Woods, Sir Robert S., M.D.,  
M.R.C.P. (Physical Med.) (L.).
- Woodward, A. S., C.M.G., C.B.E.,  
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M.R.C.S. (W.).
- Young, F. H., B.A., M.D., B.Ch.  
Camb., M.R.C.P., D.P.H. (C.).
- Young, R. A., C.B.E., M.D.,  
B.Sc., F.R.C.P. (M., BH.).
- Mental Diseases*
- Devine, H., M.D., B.S., F.R.C.P.  
(My.).
- East, W. N., M.D., L.R.C.P.,  
M.R.C.S. (My.).
- Gillespie, R. D., M.D., Ch.B.  
Glas. (G.).
- Hart, B., M.D., F.R.C.P. (UM.).
- James, G. W. B., M.D., B.S. (SM.).
- Mapother, E., M.D., F.R.C.P.,  
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- Moodie, W., M.D., Ch.B. St.  
Andrews, D.P.M. (My.).
- Nicol, W. D., M.B., B.S., L.R.C.P.,  
M.R.C.S., D.P.M. (LW.).
- Petrie, A. A. W., M.D., B.S.,  
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- Phillips, J. G. P., M.D., B.S.,  
F.R.C.P. (Bm.).
- Shrubsall, F. C., M.A., M.D. Camb.,  
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- Tredgold, A. F., M.D. Durh.,  
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- Woods, J. C., B.A. R.U.I., M.D.,  
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- Worth, R., M.B., B.S. Durham,  
M.R.C.S., L.R.C.P. (W.).
- Yellowlees, H., M.D., Ch.B. Glas.,  
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- Midwifery, v. Gynæcol.*

# MEDICAL COLLEGES

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## Neurology

Birley, J. L., M.A., D.M., B.Ch.  
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Golla, F. L., O.B.E., M.A., M.B.  
Ox., M.B., F.R.C.P. (My.).  
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## Ophthalmology

Bickerton, J. M., M.A., B.Ch.  
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## Pathology and Anat.—Morb., also Chem., Bact.

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- Pwright, S., M.D., M.R.C.P.,  
M.R.C.S. Prof. (M.).
- Protozoology* [(H.).
- Robertson, A., M.B., Ch.B. Edin.
- Thomson, J. G., M.A., M.B., Ch.B.  
Edin. Prof. (H.).
- Psychology, Medical Industrial*
- Pulpin, M., M.D., F.R.C.S. Prof. (H.).
- Radiology*
- Poldwell, W. H., M.B., B.S.,  
L.R.C.P., M.R.C.S. (W.).
- Pinz, N. S., M.B., L.R.C.P.,  
M.R.C.S. (B.).
- Podgson, H. K. G., C.V.O., M.B.,  
B.S. Durh., D.M.R.E. (KM.).
- Porison, J. M. W., M.D., C.M.  
Glasg., D.M.R.E. Camb.,  
F.R.C.P. Edin. Prof. (Can.).
- Peynolds, R. J., D.M.R.E. Camb.,  
M.B., B.S., L.R.C.P., M.R.C.S.  
(C.).
- Palmond, R. W. A., M.D., Ch.M.  
Aberd., D.P.H., D.M.R.E.  
(UM.).
- Pilandr , G. E., L.R.C.P.,  
M.R.C.S. (L.).
- Pwebster, J. H. D., M.D., Ch.B.  
Edin. (M.).
- Surg.*, v. also Dis. of Child.
- Paddison, O. L., M.B., B.S.,  
F.R.C.S. (Sch.).
- Parmour, D. J., C.M.G., M.B., B.A.  
Tor., F.R.C.S. (NH.).
- Pack, I., M.A., M.B., B.Ch. Camb.,  
F.R.C.S. (SG.).
- Ball, W. G., F.R.C.S. (B.).
- Bankart, A. S. B., M.A., M.Ch.  
Camb., F.R.C.S. (Ortho-  
pædics) (M.).
- Barrington, F. J. F., M.B., B.S.,  
F.R.C.S. (UM.).
- Barry, Geraldine M., M.B., M.S.,  
L.R.C.P., F.R.C.S. (LW.).
- Brockman, E. P., M.B., M.Ch.  
Camb., F.R.C.S. (Orthopæd.)  
(W.).
- Bromley, L., M.B., M.Ch. Camb.,  
F.R.C.S. (G.).
- Broster, L. R., M.A., M.D., M.Ch.  
Ox., F.R.C.S. (C.).
- Bryan, C. W. G., F.R.C.S. (SM.).
- Burns, B. H., B.A., B.Ch. Camb.,  
F.R.C.S. (SG.).
- Buxton, N. St. J. G. D., M.B.,  
B.S. Lond., F.R.C.S. (KM.).
- Cade, S., L.R.C.P., F.R.C.S. (W.).
- Cairns, H. W. B., M.B., B.S. Adel.,  
F.R.C.S. (L.).
- Carling, E. R., M.B., B.S., F.R.C.S.  
(W.).
- Choyce, C. C., C.M.G., C.B.E.,  
B.Sc., M.D. Edin., F.R.C.S.  
(UM.).
- Colquhoun, G. R. E., L.R.C.P.,  
F.R.C.S. (SG.).
- Cope, V. Z., M.A., M.D., M.S.,  
F.R.C.S. (SM.).
- Crook, E. A., M.A., M.Ch., F.R.C.S.  
(C.).
- Davies-Colley, R., C.M.G., M.A.,  
M.Ch. Camb., F.R.C.S. (G.).
- Dix, V. W., M.A., M.B., B.Ch. Camb.,  
F.R.C.S., M.R.C.P. (L.).
- Edmunds, A., M.S., B.Sc. (KM.).
- Edwards, A. T., M.A., M.Ch.  
Camb., F.R.C.S. (W.).
- Edwards, H. C., M.B., B.S.,  
F.R.C.S. (KM.).
- Ellis, H. B., M.B., B.Ch. Camb.  
F.R.C.S. (SM.).
- Elmslie, R. C., M.B., B.S., F.R.C.S.  
(B.).

- Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).  
 Everidge, J., O.B.E., F.R.C.S. (KM).  
 Ewart, G. A., B.A. Camb., F.R.C.S. (SG).  
 Fagge, C. H., M.S., M.B., F.R.C.S. (G).  
 Fairbank, H. A. T., D.S.O., O.B.E., M.B., M.S., L.R.C.P., F.R.C.S., L.D.S. (KM).  
 Fedden, W. F., M.S., M.B., F.R.C.S. (SG).  
 Fitzwilliams, D. C. L., C.M.G., M.D., Ch.M. Edin., F.R.C.S. (SM).  
 Frankau, C. H. S., C.B.E., M.B., B.S., F.R.C.S. (SG).  
 Gask, G. E., C.M.G., F.R.C.S. Prof. (B).  
 Gordon-Taylor, G., M.A. Aberd., M.S., B.Sc., F.R.C.S. (M).  
 Gordon - Watson, Sir Charles, K.B.E., C.M.G., F.R.C.S. (B).  
 Gould, E. L. P., M.A., M.Ch., D.M. Ox. (M).  
 Handfield-Jones, R. M., M.C., M.B., M.S., F.R.C.S. (SM).  
 Handley, W. S., M.D., M.S., F.R.C.S. (M).  
 Howard, R. J., C.B.E., M.S., M.B., F.R.C.S. (L).  
 Hudson, V. R., F.R.C.S. (M).  
 Hughes, E. C., M.A., M.Ch. Camb., F.R.C.S. (G).  
 Hume, J. B., M.B., M.S., L.R.C.P., F.R.C.S. (B).  
 Hunter, J. B., M.C., M.A., M.Ch. Camb., F.R.C.S. (KM).  
 Joll, C. A., M.B., B.Ch. Brist., M.B., M.S., B.Sc. (LW).  
 Keynes, G. L., M.A., M.D. Camb., F.R.C.S. (B).  
 Lett, H., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (L).  
 Lewis, Emily C., M.S., M.B., L.R.C.P., F.R.C.S. (LW).  
 Lindsay, E. C., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L).  
 MacLeod, A. C., M.B., B.S. (C).  
 Marshall, C. J., M.D., M.S. (C).  
 Martin, E. K., M.B., Ch.B. (UM).  
 Maybury, B. C., M.B., B.S., F.R.C.S. (T).  
 Milne, R., M.D., M.S., F.R.C.S. (L).  
 Mitchiner, P. H., M.B., M.S., L.R.C.P., F.R.C.S. (T).  
 Mullally, G. T., M.S. (W).  
 Neligan, G. E., M.B., B.Ch. Ox., F.R.C.S. (L).  
 Nitch, C. A. R., M.B., M.S., F.R.C.S. (T).  
 Norbury, L. E. C., O.B.E., M.B., B.S., L.R.C.P., F.R.C.S. (LW).  
 Ogilvie, W. H., M.A., M.D., M.Ch. Ox., F.R.C.S. (LW).  
 Page, C. M., M.S., F.R.C.S. (T).  
 Pannett, C. A., M.D., B.S., B.Sc., F.R.C.S. Prof. (SM).  
 Patey, D. H., M.B., M.S. (M).  
 Perrin, W. S., M.B., M.Ch. Camb., F.R.C.S. (L).  
 Perry, A. C., M.B., M.S., F.R.C.S. (L).  
 Rawling, L. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (B).  
 Riches, E. W., M.B., M.S., L.R.C.P., F.R.C.S. (M).  
 Roberts, J. E. H., O.B.E., M.B., B.S., Ph.D., F.R.C.S. (B).  
 Robinson, R. H. O. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (T).  
 Romans, W. H. C., M.A., M.B., M.Ch. Camb., L.R.C.P., F.R.C.S. (T).  
 Ross, J. P., M.B., M.S., L.R.C.P., F.R.C.S. Reader (B).  
 Rowlands, R. P., O.B.E., M.B., M.S., F.R.C.S. (G).  
 Shattock, C. E., M.D., M.S., F.R.C.S. (LW).  
 Slesinger, E. G., O.B.E., B.Sc., M.S., F.R.C.S. (G).

Souttar, H. S., C.B.E., M.A., B.M.,  
M Ch. Ox., F.R.C.S. (L.).  
Spencer, W. G., O.B.E., M.B.,  
M.S., F.R.C.S. (W.).  
Taylor, J., O.B.E., M.S., F.R.C.S.  
(UM.).  
Thomas, C. P., F.R.C.S. (W.).  
Thompson, A. R., M.B., Ch M.  
Manc., F.R.C.S. (G.).  
Trethowan, W. H., M.B., B.S.  
Lond., F.R.C.S. (G.).  
Trotter, W. B. L., M.D., M.S.,  
F.R.C.S. (UM.).  
Turner, P., M.S., M.B., B.Sc.,  
F.R.C.S. (G.).  
Turner, W., M.S., M.B., F.R.C.S.  
(W.).  
Tyrrell-Gray, H., M.A., M Ch.  
Camb., L.R.C.P., F.R.C.S.  
(Sch.).  
Verrall, P. J., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (LW.).  
Vick, R. M., O.B.E., M.A., M.Ch.  
Camb., L.R.C.P., F.R.C.S.  
(B.).  
Wakeley, C. P. G., F.R.C.S. (KM.).  
Walton, A. J., B.Sc., M.B., M.S.,  
L.R.C.P., F.R.C.S. (L.).  
Warwick, W. T., M.B., Ch.B. (M.).  
Webb-Johnson, A. E., C.B.E.,  
M.B., Ch.B. Manc., F.R.C.S.  
(M.).  
Williams, G. E. O., M.D., M.S.,  
F.R.C.S. (UM.).  
Wilson, H. W., M.B., M.S.,  
F.R.C.S. (B.).  
Wright, A. D., M.B., M.S., F.R.C.S.  
(SM.).

*Tropical Medicine*

Fairley, N. H., M.D., D.Sc. Melb.,  
F.R.C.P. (H.).  
Low, G. C., M.A. St. And., M.D.,  
C.M. Edin. (H.).  
Manson-Bahr, P. H., M.A., M.D.  
Camb., F.R.C.P. (H.).  
Newham, H. B. G., C.M.G., M.D.,  
D.P.H., D.T.M. and H. Camb.  
(H.).

*Veneral Diseases*

Davies, T. A., M.D., B.S.,  
M.R.C.P., M.R.C.S. (L.).  
O'Donovan, W. J., M.D. (L.).  
Harrison, Col. L. W., D.S.O.,  
M.B., Ch.B. Glas. (T.).  
*Zoology*, v. also *Protozoology*  
Evans, Thomas James, M.A. Ox.  
(G.).

*Dentistry*

*Dental Anat. and Physiol.*

Malleson, H. C., L.R.C.P.,  
M.R.C.S., L.D.S. (G.).  
Pitts, A. T., D.S.O., L.R.C.P.,  
M.R.C.S., L.D.S. (D.).  
Shefford, A. D. E., L.D.S. (R.C.S.  
Eng.) (UM.).

*Dental Materna Medica*

Coleman, F., L.R.C.P., M.R.C.S.,  
L.D.S. (D.).  
Doubleday, F. N., L.D.S. (G.).

*Dental Mechanics*

Bull, F. B., L.D.S. (G.).  
Chapman, H., L.D.S. (*Ortho-*  
*donics*) (L.).  
Richards, P. A. E., F.I.C. (D.).  
Samuel, B., L.D.S. (*Orthodontics*)  
(UM.).

*Dental Prosthetics*

Allen, A. G., L.D.S. (L.).  
Fry, W. K., M.C., L.R.C.P.,  
M.R.C.S., L.D.S. (G.).  
Mendleson, B., L.D.S. (R.C.S.  
Eng.) (UM.).  
Milne, J. B., L.D.S. Edin. (KM.).

*Dental Surgery*

Buxton, J. L. D., L.D.S. (UM.).  
Clapham, H. D., L.R.C.P.,  
M.R.C.S., L.D.S. (L.).  
Dowsett, E. B., D.S.O., L.D.S.,  
L.R.C.P., M.R.C.S. (G.).  
Fish, E. W., M.D., Ch.B., L.D.S.  
Manc. (SM.).  
Hankey, G. T., L.R.C.P., M.R.C.S.,  
L.D.S. (L.).

Herman, W. S., B.A. Camb., M.R.C.S., L.R.C.P., L.D.S.	Smale, H., L.R.C.P., M.R.C.S., L.D.S. (SM.).
(L).	Sprawson, E. C., L.R.C.P., M.R.C.S., L.D.S. (L).
James, W. W., O.B.E., L.R.C.P., F.R.C.S., L.D.S. (M).	Steadman, S. F. St. J., L.R.C.P., M.R.C.S., L.D.S., D.P.H. (D.).
Keizer, W. R., L.R.C.P., M.R.C.S., L.D.S. (L).	Turner, J. G., F.R.C.S., L.D.S. (D)
Pritchard, G. B., L.R.C.P., M.R.C.S., L.D.S. (Histol) (G.).	

## GENERAL INFORMATION

*Schools*

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield, E.C.1. Dean—W. Girling Ball, F.R.C.S. Sub-Dean—J. B. Hume, M.S., F.R.C.S.

Founded 1662 Appointed and Recognized Teachers—43 (v. *supra*). *Library*: the largest of the kind in London. *Museum*: 10,000 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 762 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1500; two for Research in Path. (£145) and Surg. (£150) open to graduates of any Univ educated at Bart.'s. Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

BETHLEM ROYAL HOSPITAL, Monks Orchard, Eden Park, nr. Beckenham, Kent. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for D.P.M. are held annually. Daily clinical instruction classes. Pathological Laboratory. X-ray apparatus.

THE CANCER HOSPITAL (FREE), Fulham Rd., S.W.3. *Dir. of the Research Inst.*—Prof. E. L. Kennaway, D.Sc., M.D. *Dir. of the Radiological Dept.*—Prof. J. M. Woodburn Morison, M.D., F.R.C.P.Ed.; J. W. Cook, D.Sc., Ph.D., F.I.C., Reader (*Path. Chem.*); W. V. Mayneord, M.Sc. (*Phys. as applied to Med. Pathol.*). A School of the Univ. for 3 yrs. from Oct. 1, 1931, for the purpose of research in (i.) Advanced Pathology, and (ii.) Radiology in relation to malignant disease

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—E. A. Crook, M.Ch., F.R.C.S. Secy.—Wyndham Edwards. Founded 1821. Appointed and Recognized Teachers (v. *supra*)—14. *Fees*: entrance, 10 gs.; annual, 38 gs. Several scholarships, etc.

ROYAL DENTAL HOSPITAL OF LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham.

Founded 1858. Recognized Teachers—6 (v. *supra*); others—30. Library, Museum, and Laboratories. X-ray Dept. Students are admitted for the curriculum for the B.D.S. Degree and the L.D.S. Diploma. *Fees*: for the

L.D.S., £70 for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £210; for the B.D.S., £35 annually for first three yrs., and £70 for fourth.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Secretary—J. H. E. Winston, F.I.S.A.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—50 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 652 beds. Fully equipped Dental Dept. with Lab. Fees: entrance, £28; annual, £49. Foundations in aid of Research: Lect'ship in Path., approx. £1400 p.a.; in Clin. Chem., £250; Trav. Studentship, £150; Studentship in Mat. Med., £60; in Path., £250; Dem'rsip in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholops. Resident *appointments*—numerous House appointments are made every 3 mths. from amongst the recently qualified students. *Residential* accommodation for 35 students. Furnished rooms, 19s. to 36s. *Students' Publication*: G.H. Gazette. Women students are not eligible for admussion.

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel Street (Gower Street), W.C.1. Dean—Prof. W. W. Jameson, M.A., M.D., F.R.C.P. Secy.—R. W. Harris.

This School was constituted by Royal Charter on April 1, 1924. In accordance with the terms of the Charter the School was recognized on Nov. 18, 1931, in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school has been built and equipped with a sum of \$2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School. It includes the following depts. (1) Public Health; (2) Bio-Chemistry and Chemistry as applied to Hygiene; (3) Bacteriology and Immunology; (4) Medical Zoology; (5) Epidemiology and Vital Statistics; (6) Clinical Tropical Medicine. It provides for the training and equipment of public health officers, and for research in various branches of preventive medicine. Appointed and Recognized Teachers—28 (v. *supra*).

The Chair of Public Health has been endowed by the Prudential Assurance Company for a period of 7 yrs., and is known as the Prudential Chair of Public Health.

The courses of study in all branches of the work of the School are given in the new premises in Keppel St. (Gower St.), which has excellent labs. and research rooms, a fine lecture theatre and classrooms, library and museum.

*Diploma in Tropical Medicine and Hygiene.* On Aug. 1, 1924, the School took over from the Seamen's Hospital Society the old School of Tropical Medicine. In the various Hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases available for teaching purposes. The funds available for encouraging research include the Tropical Diseases Research Fund, the Wandsworth Bequest, and the E. J. Stanley Memorial. (See Appendix XXIII.) Research expeditions are equipped and maintained by the School. Students must ordinarily be qualified Med. practitioners. There are 3 sessions of 3 months each (Laboratory and Clin. instruction) and 2 of 2 months each (Trop. Hyg.) designed for the D.T.M. and H. of the Conjoint Board and for candidates for the M.D. in Trop. Med. Certificates granted. Fees: £40 for the whole course, or £25 and £15, respectively.

*Diploma in Public Health.* The course of study commencing in October extends over a period of 9 months' whole-time study, and is so arranged that students will be able to comply with all requirements of the Gen. Med. Council. The School provides instruction in Bacter., Parasit. (including Med. Ent.), Chem., Physics, Meteorol., and Climatol., and in Hyg., Pub. Health Admin., Epidemiol. and Vital Stats. Included in the syllabus are a number of special lectures by recognized experts in various public health problems, and a similar number of visits to carefully selected places of outstanding public health interest. The course of study is designed to enable candds. to proceed to the new academic Dipl. in Pub. Health instituted by the Univ. Fee for course, 54 gs.

*Diploma in Bacteriology.* The special course of study for the Dipl. in Bacter. covers a period of one acad. year beginning in October. Fee for course, £47: 15s.

In addition to the students taking the Diploma Courses, many are admitted to special courses of study and research in the various branches of the work of the School.

KING'S COLLEGE HOSPITAL Medical School, Denmark Hill, S.E.5. Dean—J. A. Drake, M.D., F.R.C.P., D.P.H. Vice-Dean—H. A. Lucas, B.A., M.R.C.S., L.R.C.P. Secy.—S. C. Ranner, M.A.

Appointed and Recognized Teachers—30 (*v. supra*); others—18. *Fees*: entrance, 10 gs.; complete courses for Med. Degree and Diploma examns., 200 gs.; final course only, 93 gs. *Scholarships*: Scholarships of a total value of £1530 are offered annually (particulars on application). *Hostel* with accommodation for 80 men students. *Students' Publication*: *K.C.H. Gazette*.

LONDON HOSPITAL, Medical College and Dental School, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon. Women students are not eligible for admission.

Founded 1781. Appointed and Recognized Teachers—44 (*v. supra*); others—65. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of the Bernhard Baron Inst. of Path. for Advanced Research. 839 beds. *Fees*: entrance, 20 gs.; annual, 40 gs. 39 scholps. and prizes. Hostel for 25 students. 160 appointments available for students. *Students' Publication*: *L.H. Gazette*.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. J. C. G. Ledingham, C.M.G., M.B., D.Sc., F.R.C.P., F.R.S. Secy.—A. L. White.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to approved Research students of both sexes, usually without fee. Appointed and Recognized Teachers—9 (*v. supra*); 13 other members of scientific staff.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Miss E. Bolton, M.D., B.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—26 (*v. supra*); others—32. 288 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas.

Arrangements for Dental students. *Fees*: £50 p.a. throughout the course. Students' chambers provided for 84 students. *Students' Publication*: *L.S.M. Gazette*.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent—E. Mapother, M.D., F.R.C.P., F.R.C.S. Director of Pathological Department—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the London County Mental Hospitals (containing 21,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 242 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—T. Izod Bennett, M.D., F.R.C.P. School Secy.—R. A. Foley.

Founded 1835. Appointed and Recognized Teachers—40 (v. *supra*); others—13. Over 470 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs.; *Cancer Research Labs.*; The S.A. Courtauld Institute of Bio-Chemistry; the Ferens Institute of Otolaryngology and Speech, etc., worth over £1000 p.a. *Fees*: Entrance, £25; 5 annual, £45. No accommodation for women students.

SCHOOL OF PHARMACY of Pharmaceutical Society of Great Britain. 17 Bloomsbury Sq., W.C.1. Dean—Prof. H. G. Greenish, D. ès Sc. Paris F.I.C., F.L.S.

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. Recognized Teachers—3 (v. *supra*); others—8. *Fees*: Course for the Chemist and Druggist Qualifying Examn., £42: 13s.; for the Pharmaceutical Chemist Qualifying Examn. and for the B.Pharm. degree (2 years), £44: 15s. (each year). Open to students of both sexes.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—A. Felling, M.D., F.R.C.P.

Founded 1752. Appointed and Recognized Teachers—19 (v. *supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—C. M. Wilson, M.D., F.R.C.P. Secy.—B. E. Matthews, B.A. *Students Publication*: *St. M. H. Gazette*.

Founded 1852. Appointed and Recognized Teachers—36 (v. *supra*); others—18. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; entire curriculum, £205. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920-21.



ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1. Dean—Prof. L. S. Dudgeon, C.M.G., C.B.E. Medical Secretary—R. J. C. Thompson, C.M.G., D.S.O., M.D., M.R.C.P.

Founded in 13th century. Recognized Teachers—37 (*v. supra*); others—36. Path. Dept. includes Museum with 4000 specimens. Large Laboratories for teaching and research. Hospl. beds, 664. *Fees*: Tuition per annum, £50. Hostel accommodation for 50. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF HYGIENE AND, *v. supra*.

UNIVERSITY COLLEGE HOSPITAL, Medical School, University Street, W.C.1. Dean—A. M. H. Gray, C.B.E., M.D., F.R.C.P., F.R.C.S. Vice-Dean—Gwynne Williams, M.S., F.R.C.S. Sub-Dean for Dental Students—J. L. Dudley Buxton, L.M.S.S.A., L.D.S. Secy.—R. Sloley. Open to both sexes.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. Recognized Teachers—30 (*v. supra*); others—52. *Library*, 20,500 vols. The *Charles Graham Laboratories*, under the direction of Prof. A. E. Boycott, were established in 1902 for research in Path. A limited number of qualified students are admitted as Lab. workers, to whom grants may be made. *Fees*: course for Final M.B., B.S., or 3rd examn. of Conjoint Board—112 gs *Scholarships, etc.*: annual value, £1250. *Students' Hostel*: Adjoining the Medical School is a specially equipped Hostel solely for students in the School. Large bed-sitting rooms are available as well as Common Rooms. All meals are provided in the School Refectory. A member of the staff resides at the Hostel. *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine* (Students').

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914. Address: 187-191 Gt. Portland St. and 59 Devonshire St., W.1.

WESTMINSTER HOSPITAL, Medical School, 12 Caxton St., Westminster, S.W.1. Dean—Sir Stanley Woodwark, C.M.G., C.B.E., M.D., F.R.C.P. Secy.—H. Cyril Eddowes, M.A.

Founded 1834. Recognized Teachers—28 (*v. supra*); others—13. *Fees*: £40 p.a. and 10 gs. entrance.

### *Institutions with Recognized Teachers*

BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. Dean—W. J. Fenton, M.D., F.R.C.P. Recognized in Med., Oto-Rhino-Laryng. Pathol. Post-graduates are admitted to the hospital practice, the fee being 1 guinea per month. Undergraduate courses are held before each Conjoint Board examn. Applications should be made to the Dean.

HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. Dean—W. G. Wyllie, M.D., F.R.C.P. Recognized in Bact., Dis. of Child., Surg.

NATIONAL HOSPITAL FOR DISEASES OF THE NERVOUS SYSTEM, Queen Square, London, W.C.1. Dean—J. G. Greenfield, B.Sc., M.D., F.R.C.P. Recognized in Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. 10-week courses are given twice a year which qualify for the Diploma in Psychological Medicine.

ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C 1. *Dean*—C. D. Goulden, O.B.E., M.D., F.R.C.S. Recognized in Ophth. Students, 161.

NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, N.W.3. *Director*—Sir H. H. Dale, C.B.E., M.D., F.R.S. Research work in Physiol., Pharmacol., and Bio-Chemistry; Experimental Pathol., Bacteriol., and Parasitol.; Microscopy and Physical Methods; and Biological Standards. All communications should be addressed to the Secy., Medical Research Council, 38 Old Queen St., S.W.1.

*See also* Appendix XXIV. A. VII.

## FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs and Teachers of Univ. and King's Colls. and of the London Sch. of Econ dividing the work among them, indicated below by (U) (K) (E) For the evening teaching of Law, see also Birkbeck Coll., and for Indian and Ottoman Law, see Sch]. of Oriental Studies

### PROFESSORS, LECTURERS, ETC.

- |   |   |
|---|---|
| Amos, Sir Maurice S, K.B.E.,<br>M.A. Camb., K.C. Prof. (U)  | *Morgan, J. H., B.A. Ox., M.A.<br>Prof. of Constitutional<br>L. (U.), and Lectr. in<br>Colonial Constitutional<br>L. (U). |
| *Ball, W. Valentine, O.B.E., M.A.<br>Camb. (Railway L.) (E).  |   |
| *Chorley, R. S. T., M.A. Ox.<br>Cassel Prof. of Comm'l<br>and Indust. L. (E)                        | Odgers, Sir C. E., M.A., B.C.L. (K).  |
| *Hibbert, W. N., LL.D. (Jurispr.<br>and Roman L.) (K.).   | *Parry, D. Hughes, M.A., LL.M.<br>Camb, B.A. Wales<br>Prof. of English L. (E).  |
| *Jennings, W. I., M.A., LL.B. Camb.<br>Reader in English L. (E).                                    | Plucknett, T. F. T., LL.B. Camb,<br>M.A.<br>Prof. of Legal Hist (E).  |
| Jolowicz, H. F., M.A. Ox., M.A.,<br>LL.B. Camb.<br>Prof. of Roman L. and<br>Lectr. in Jurispr. (U). | Potter, H., Ph.D. Birm., LL.B.<br>Reader in English L. (K).   |
| Keeton, G. W., M.A., LL.M. Camb.<br>Reader in English L. (U).                                       | Robson, W. A., B.Sc. (Econ),<br>LL.M., Ph.D. (Indust and<br>Admin. L.) (E).   |
| Lauterpacht, H., LL.D., Dr. Jur.,<br>Dr. Sc. Pol. Vienna (Internat.<br>L.) (E)                      | *Smith, H. A., M.A. Ox.<br>Prof. of Internat. Law (E).  |

In addition the following teachers of Law not recognized by the University are on the staffs of the several Colleges

- |   |  |
|---|--|
| Davies, D. J. Llewelyn, M.A.<br>Camb, LL.B. Wales<br>(Eng. L.) (E). | FitzGerald, S. G. V., M.A.<br>(L. of Palestine and<br>Iraq) (U). |
| Davies, D. Seaborne, M.A. Camb.,<br>LL.B. Wales (Engl. L.) (E).     | Jones, R. W. (Banking)<br>Gilbart Lectr (K).                     |
| Dold, G. W. F., B.A., LL.B.<br>(Roman. Dutch L.) (U).               | Phillips, O. H., B.A., B.C.L. (K).                               |
|   | Wortley, B. A., LL.B. Leeds<br>(Engl. L.) (E).                   |

\* Barrister-at-Law.

## OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

- |  |  |
|--|--|
| <p>(1) GOLDSMITHS' COLLEGE.*</p> <p>(2) BATTERSEA POLYTECHNIC.</p> <p>(6) JEWS' COLL.</p> <p>(7) NORTHAMPTON POLYT. INST.</p> <p>(8) NORTHERN POLYTECHNIC.</p> <p>(9) ROYAL VETERINARY COLL.</p> <p>(10) SIR JOHN CASS TECH. INST.</p> <p>(11) CHELSEA POLYTECHNIC.</p> <p>(12) WEST HAM MUNICIPAL COLL.</p> <p>(13) WOOLWICH POLYTECHNIC.</p> | <p>(14) MARIA GREY TRAINING COLL.</p> <p>(15) ST. MARY'S COLL., PADDINGTON.</p> <p>(16) FURZEDOWN TRAINING COLLEGE.</p> <p>(17) JOHN INNES HORTICULTURAL INSTITUTION.</p> <p>(18) ROTHAMSTED EXPERIMENTAL STATION.</p> <p>(19) ROYAL ACADEMY OF MUSIC.</p> <p>(20) ROYAL COLL. OF MUSIC.</p> <p>(21) TRINITY COLL. OF MUSIC.</p> |
|--|--|

\* Incorporated in the Univ.

## NAMES OF RECOGNIZED TEACHERS

*Note.*—In the following list the names of the instns. are indicated by numerals—as shown above. Nos. omitted were assigned to Instns. which no longer exist, or which now have no recognized teachers. Teachers to whom only probationary recognition has been granted are not included in the list.

- |   |   |
|---|---|
| <p><i>Agricultural Biology</i></p> <p>Cutler, D. W., M.A. Camb. (18).</p> <p><i>Biochemistry</i></p> <p>Richards, E. H., B.Sc., F.I.C. (18).</p> <p>(Agric. Biochem.) (18).</p> <p>Tattersfield, F., D.Sc. (18).</p> <p><i>Biology, v. supra, Medical Schools' Recognized Teachers</i></p> <p><i>Botany</i></p> <p>Brett, Margaret, M.Sc. (8).</p> <p>Brenchley, Winifred E., D.Sc. (Agric. B.) (18).</p> <p>Lacey, H. B., F.L.S. (11).</p> <p><i>Chemistry</i></p> <p>Barnett, E. de B., B.Sc. (10).</p> <p>Bell, F., D.Sc., Ph.D. (2).</p> <p>Clough, G. W., D.Sc. Birm. (9).</p> <p>Crowther, E. M., D.Sc. Leeds, D.I.C. (Soil C.) (18).</p> | <p>Davies, C. W., M.Sc. Wales (2).</p> <p>Dean, G., M.A. Camb., D.Sc. (12).</p> <p>Dorée, C., M.A. Ox., D.Sc. (11).</p> <p>Drakeley, T. J., Ph.D., D.Sc., F.C.S., A.I.C. (8).</p> <p>Field, S., A.R.C.S. (Applied C.) (7).</p> <p>Goodway, N. F., M.Sc. (10).</p> <p>Heap, T., B.Sc. Manc., M.Sc., Ph.D. (2).</p> <p>Houssa, A. J. H., M.Sc., A.I.C. (2).</p> <p>Kenyon, J., D.Sc., F.I.C. (2).</p> <p>King, H. J. S., Ph.D., M.Sc. (8).</p> <p>Lowe, F. H., M.Sc. Manc. (11).</p> <p>Patterson, W. S., M.Sc. Leeds, Ph.D. (App. C.) (7).</p> <p>Russell, Sir E. John, D.Sc., F.R.S. (Agric. Chem.) (18).</p> <p>Sand, H. J. S., Ph.D., Zür., D.Sc. Birm. (10).</p> |
|---|---|

- Shacklock, C. W., M.Sc. (8).  
 Skellon, J. H., M.Sc., B.Sc. Brist. (11).  
 Smith, F. W., M.Sc., A.I.C. (8).  
 Ward, A. M., D.Sc., Ph.D. (10).  
 West, R. W., D.Sc., A.R.C.S. (8).
- Chemistry, Organic*  
 Crocker, J. C., M.A. Camb., D.Sc., F.C.S. (11).  
 Richardson, D. H., M.Sc. (8).
- Classics*  
 Crump, Mary M., M.A., D.Lit. (Latin) (1).
- Cytology*  
 Darlington, C. D., D.Sc., Ph.D. (17).
- Education*, v. also Music  
 Dean, A. E., M.A., M.Litt. (1).  
 Firth, Catherine B., D.Lit. Lond. (16).  
 Graveson, Caroline C., B.A. (1).  
 Green, Mrs. A. N., M.A. Manc. (15).  
 Johnston, Katharine L., M.A. Sheff., T.D. Camb., B.A. (14).  
 Meiklejohn, Grace I. W., M.A. Edin. (14).  
 Reaney, Mabel J., D.Sc. Lond. (16).  
 Silsby, Eleanor, M.Sc. Lond. (16).  
 Smith, Phyllis W., M.A. (14).  
 Steppat, Mrs. M. A. A., M.A. Durh., M.A. (14).  
 Storr, Muriel, M.A. Ox. (1).  
 Terry, Edith, Med. and Mod. Lang. Trip. Camb. (16).
- Engineering, Civil*  
 Bolam, W. N., B.Sc. Edin. (7).  
 Brooks, W. H., Ph.D., B.Sc. (Eng.) (7).  
 Curnock, W. E. M., M.Sc. (Eng.) Manc., B.Eng. Liv., (Lectr. in Civ. and Mech. E.) (2).
- Engineering, Electrical*  
 Baillie, T. C., D.Sc., M.A. Edin. (12).  
 Boraston, C. A., B.Sc. (Eng.) Liv. (7).
- Bridger, W., B.Sc. (Eng.) (12).  
 Burgess, Alfred F., B.Sc. (Eng.) (7).  
 Dover, A. T. (2).  
 Dowse, C. M., B.Sc. (Eng.) (7).  
 Fleming, J. G., B.Sc. (Eng.) (2).  
 Howgrave-Graham, R. P. (also Applied Physics) (7).  
 Jolley, A. C. (7).  
 Mann, H. C., B.Sc. (Eng.) (2).  
 Spencer, W. G., M.Sc. (Tech.) Manc. (13).  
*Engin., Mech.*, v. also E., Civil  
 Ashworth, M. H., B.Sc. Manc. (13).  
 Davies, V. C., B.Sc. (2).  
 Dumbrell, W. E., B.Sc. (Fluids), A.R.C.S. (7).  
 Edmonds, H. M., B.Sc. (Eng.) (2).  
 Holley, E. G., M.Sc., A.C.G.I., D.I.C. (12).  
 Larard, C. E., D.Sc. (Eng.), M.I.Mech.E., M.I.C.E. (7).  
 Peck, W. J., M.Sc. (Eng.) Sheff. (2).  
 Richardson, D. (7).  
 Scoble, W. A., M.B.E., D.Sc. (Eng.), M.I.Mech.E. (13).  
 Shaw, J. B., A.R.C.S. (2).  
*Engineering, Mech., and Surveying*  
 Gladwyn, A. E., B.Sc. (Eng.) (12).  
 Parker, W. E., B.Sc. (Eng.) Manc. (7).
- Eng. Lang. and Literature*  
 Rees, W., M.A. Ox., Ph.D. (1).
- Genetics*  
 Haldane, J. B. S., M.A. Ox. and Camb., F.R.S. (17).  
 Sansome, F. W., B.Sc., Ph.D. Edin. (17).
- Geology*  
 Maslen, A. J., D.Sc., F.L.S., F.G.S. (11).
- History*  
 Ridout, E. S. F., M.A. (1).
- Mathematics*  
 Church, A. E. R., M.A., D.Sc. (10).

- Curzon, H. E. J., M.A. Camb., D.Sc. (1).  
 Geary, A., M.A. Camb., M.Sc. (7).  
 Harvey, F. W., M.A. R.U.I., B.Sc. (2).  
 Henderson, J. M. A., B.Sc. Edin., Ph.D. (K., 10).  
 Littlejohn, E. S., M.Sc. Manc. (12).  
 Ludlam, A. E., M.Sc. Birm. (11).  
 Rhind, A., B.Sc., A.R.C.S. (8).  
 Salmon, W. H., M.A. Camb., B.Sc. (12).  
 Saxelby, F. M., M.Sc. Manc., B.A. (2).  
 Smith, R. T., B.A. Camb. (13).  
 Topping, J., Ph.D., M.Sc. Manc. (11).  
*Medicine and Surgery, v. supra* (p. 166).  
*Metallurgy*  
 Naish, W. A., B.Sc., Ph.D., A.R.S.M., M.I.M.M., F.I.C. (11).  
*Music*  
 Allen, Sir H. P., Mus.D., M.A. Ox., F.R.C.M. (20).  
 Brockless, G. F., Mus.D. Durh., F.R.C.O., A.R.C.M., L.R.A.M. (2).  
 Buck, P. C., M.A., Mus.Doc. Ox., M.A. Dub. Prof. (20).  
 Carse, A., F.R.A.M. (19).  
 Colles, H. C., M.A., D.Mus. Ox. (20).  
 Dale, B. J., F.R.A.M., F.R.C.O. (19).  
 Dunhill, T. F., A.R.C.M. (20).  
 Dyson, G., Mus.Doc. Ox. (20).  
 Farjeon, H., F.R.A.M. (19).  
 Greenish, A. J., Mus.D. Camb. (19).  
 Hinton, A., F.R.A.M. (19).  
 Howells, H. N., F.R.C.O., A.R.C.M. (20).  
 Hurd, R. J. W., LL.D., Ph.D., F.T.C.L. (21).  
 Kerridge, W. H., M.A., Mus.Bac. Camb., A.R.C.M., F.R.C.O. (11).  
 Kitson, C. H., M.A. Camb., Mus.Doc. Ox., F.R.C.O. (20).  
 Long, J. C., Mus.B. Ox. (21).  
 Lovelock, W., B.Mus. (21).  
 McEwen, Sir John B., M.A. Glas., Mus.D., F.R.A.M. (19).  
 Oldroyd, G., D.Mus. (21).  
 Regan, L. W. A., B.Mus. Ox., A.R.A.M., F.R.C.O. (19).  
 Roper, E. S., M.V.O., M.A., Mus.B. (21).  
 Salsbury, Janet M., Mus.D. Durh., L.R.A.M., F.R.C.O. (21).  
 Sowerbutts, J. A., B.Mus., F.R.C.O., A.R.A.M. (19).  
 Waddington, S. P. (20).  
 Wallace, W., M.D. Glas., F.R.A.M. (19).  
 Warriner, J., Mus.D. Dub. (also in *Pedag.* as applied to Music) (21).  
 Wharton - Wells, H., B.Mus. Ox. and Durh., F.R.C.O., L.R.A.M. (also recognized in *Pedag.* as applied to Music) (11).  
*Pedagogy, v. Education and Music*  
*Pharmacy and Pharmacognosy*  
 Morton, C., B.Sc. Lond., Ph.C., M.P.S. (11).  
*Physics, v. also Maths.*  
 Charlesworth, J., M.Sc. Manc. (8).  
 Emsley, H. H. (App. P.), B.Sc. Brist. (7).  
 Evans, A. E., B.Sc. (2).  
 Freeman, L. J., Ph.D., B.Sc., D.I.C. (11).  
 Howgrave-Graham, R. P. (App. P.) (7).  
 Humphry, R. H., M.Sc. Birm. (10).  
 Keen, B. A., D.Sc. (18).  
 Laws, S. C., M.A. Camb., M.Sc. (7).  
 Lownds, L., Ph.D. Berl., B.Sc. (11).  
 Mandell, W., M.Sc. Wales, B.Sc., Ph.D. (11).  
 Marsh, S., D.Sc. Wales, Ph.D. Gött. (2).  
 Nicol, J., B.A. Camb., B.Sc. (8).

Owen, D., B.A. Camb., D.Sc. (10).	<i>Soil Bacteriology</i>
Polson, W., M.A., B.Sc. Aberd. (12).	Thornton, H. G., B.A. Ox., D.Sc. (18).
Swaine, W., B.Sc. Manc. (12).	<i>Statistics</i>
Vincomb, T. B., M.A. R.U.I. (13).	Fisher, R. A., M.A., Sc.D. Camb., F.R.S. (18).
<i>Physiology</i>	
Symes, W. L., M.R.C.S. (9).	<i>Veterinary Hygiene</i>
<i>Semitic Languages</i>	Wooldridge, G. H., F.R.C.V.S. (9).
Büchler, A., Ph.D. Leip. (6).	<i>Veterinary Pathology</i>
Daiches, S., Ph.D. Leip. (6).	Hare, T., M.D., B.Ch., B.V.Sc. (9).
Epstein, I., D.Lit., Ph.D. (6).	Liv., M.R.C.V.S. (9).
Marmorstein, A., Ph.D. Heid. (6).	<i>Zoology</i>
(Bible and Rabbinics) (6).	Hentschel, C. C., M.Sc. (11).

## GENERAL INFORMATION

[(a) Principal (b) Subjects in which recognized. (c) Number of students]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—A. E. Dean, M.A., M.Litt. Vice-P'pals. of Training Dept.—R. A. Raven, M.A., and Miss C. C. Graveson, B.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—9 (v. *supra*)—Classics, Educn., Engl., French, Geog., Hist., Maths.; others—60.

*Training Department.* Recognized by Bd. of Educn. as a Training Coll. Ordinary course—2 yrs., or for B.A. (Pass) or B.Sc. (General) degree—3 yrs. Lectrs. and Instrs.—39. *Annual fee* for tuition with mid-day meal: £27 or £32: 10s., according to the course taken. Hostels provide accommodation for nearly all the women and many men students.

*School of Art* (Day and Evening). Headmaster and 12 Assts. *Fees*: Day, £5 to £15; Evening, 12s. for any one sessional class or £1 for an inclusive course on any number of evenings.

*The Evening Literary Department.* Provides opportunities of non-vocational study for men and women. *Fees*: (same as School of Art).

2 BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (a) G. F. O'Riordan, B.Sc. (Eng.). (b) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (c) 3398.

6. JEWS' COLLEGE, Woburn House, Tavistock Sq., W.C.1. (a) A. Büchler, Ph.D. (b) Hebrew, Semitics. (c) 34.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St., E.C.1. (a) S. C. Laws, M.A., M.Sc. (b) Engin. (Civil, Mech., Elec.), Physics, Chem., Maths. (c) 3149.

8. NORTHERN POLYTECHNIC, Holloway Rd., N.7. (a) T. J. Drakeley, D.Sc., Ph.D., F.I.C., F.C.S., M.I.M.E. (b) Bot., Chem., Geol., Maths., Physics. (c) 3734.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (a) Prof. Sir F. T. G. Hobday, C.M.G., F.R.G.V.S., F.R.S.E. (b) Chem., Vet. Hyg., Vet. Path. and Bact., Physiol. (c) 263.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (a) G. Patchin, A.R.S.M., M.I.M.M. (b) Chem., Maths., Physics. (c) 1000 (approx.).

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (a) F. J. Harlow, Ph.D., B.Sc., F.Inst.P., A.R.C.Sc. (b) Bot., Chem., Geol., Maths., Metall., Music, Pharm., Physics, Zool. (c) Day, 949; Evg., 2286.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (a) T. C. Baillie, M.A., D.Sc. (b) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (c) Day, 386; Evg., 1590.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (a) E. Mallett, D.Sc., M.I.E.E. (b) Chem., Engin. (E., M.), Maths., Phys. (c) 1237.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (a) Miss K. L. Johnston, M.A. (b) Educn. (c) 228.

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Roberts, S. G., B.Com. (Econ.).

Collier, Frances, M.A.

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Gartside Res. Asst.

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(Tutorial Classes) Staff Tutor.

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Leip., M Ed. Hon. Prof.  
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Hindshaw, Winifred, M.A., M.Ed.  
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Vaughan, Frances M., M.A. N.U.I.  
Jackson, Rev. S. F., M.A. Manc.  
and Liv., Litt.D. Liv.  
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Helm, J. H., B.A., LL.B. Camb.  
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Keighley, T., Mus.D. (Singing).  
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..... (Phys. Ex.) Instr.  
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Davies, Elwyn, B A. Wales, M.Sc

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*Theology*, v. *infra*

*Veterinary Hygiene*, v. *infra*  
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Marples, B. J., B.A. Ox., M.Sc.

Brough, J., B.Sc. Durh.

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MacGill, Elsie I., M.Sc. (Entomol.)  
Res. Asst.

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Bottomley, A. C., M.Sc., Ph.D.  
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Lyth, R., B.Sc., Dip. Bact.

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Skin).

Savatard, L., L.S.A.

Gibson, R., M.D. Edin.

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of the*

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M.R.C.S., L.R.C.P.

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Wrigley, F. G., M.D.

(Throat and Nose) Lectr.

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Prev. Med.

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*Materia Med. and Therap.*

..... Leech Prof.

Macdonald, A. D., M.A., M.B.,  
Ch.B. Edin. Reader.

Rawsthorne, F., L.D.S. (Eng.)  
(Dental Mat. Med.) Lectr.

Bedford, T. H. B., M.Sc., M.B.,  
Ch.B. Leeds, M.R.C.P. (Phar-  
macol.) Asst. Lectr.

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F.R.C.P. Prof.

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F.R.C.P.

Core, D. E., M.D., F.R.C.P. (also  
in Neurol.).

Oliver, T. H., M.D., M.R.C.P. (also  
in Syst. Med.).

Leech, E. B., M.D. Camb., F.R.C.P.

*Medicine, Systematic*, v. also  
Med., Clin.

Tylecote, F. E., M.D., D.P.H.,  
F.R.C.P. Prof.

Langley, G. J., M.B.E., M.D.,  
B.S. Lond., M.R.C.P.  
(Gen. Therap.) Reader.  
Wilkinson, J. F., M.Sc., M.D.,  
Ph.D. Lectr.  
Brockbank, W., M.A., M.D. Camb.,  
M.R.C.P. Demr.

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Cormac, H. D., M.B., M.S. Madr.,  
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Bride, J. W., M.D. Lond. and  
Manc. Lectr.  
Bailey, K. V., M.C., M.D.,  
M.R.C.P. Asst. Lectr.  
Gerrard, E. A., M.B., Ch.B.,  
M.R.C.S., L.R.C.P. Demr

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Lacey, F. H., M.D. Hon. Lectr.

#### *Ophthalmology*

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McNabb, H. H., M.D.  
Wharton, J., M.A., M.D. Camb.  
Bride, T. M., M.D.

#### *Orthopaedics*

#### *Hon. Clin. Lecturers :*

Ollerenshaw, R., M.D., F.R.C.S.  
Platt, H., M.S. Lond., M.D.,  
F.R.C.S.

#### *Pathology and Path. Anat., v. also Dermatol. and Surgical Path.*

Baker, S. L., M.R.C.S., L.R.C.P.,  
Ph.D., D.P.H. Lond.  
Procter Prof.  
Loveday, G. E., M.A., M.B., B.C.  
Camb., M.R.C.S., L.R.C.P.  
(Clin. Path.) Reader.  
Susman, W., B.A., M.D. Ont.  
(Morbid Anat. and Histol.)  
Lectr.  
Sheehan, H. L., M.D. Lectr.

#### *Asst. Lectrs. :*

Kay, W. W., B.Sc., M.B., Ch.B.  
(Chem. Path.).  
Whitehead, R., M.Sc., M.D..  
Kershaw, J., L.S.A. Lond., L.D.S.  
Demr.

#### *Pharmaceutics*

Grier, J., M.Sc., Ph.C. Sr. Lectr.  
Brindle, H., B.Sc. Lond., Ph.C.  
(Pharm. Chem.) Lectr.  
Roberts, Ivy, M.Sc., Ph.C. Lectr.  
Duncan, Jeannette, B.Sc., Ph.C.  
Asst. Lectr.

#### *Demonstrators :*

Fowlds, W. L., B.Sc., Ph.C.  
Prescott, S. L., B.Sc.  
Bullock, K., M.Sc., Ph.D

#### *Pharmacology, v. Mat. Med.*

#### *Radiotherapy*

Twining, E. W., M.R.C.S., L.R.C.P.,  
D.M.R.E. Camb. Lectr.

#### *Surgery, Clin., v. also Orthop*

Burgess, A. H., LL.D. Manist.,  
M.B., Ch.B., M.Sc., F.R.C.S.  
Prof.

#### *Lecturers :*

Roberts, Chas., M.B., B.S. Lond.,  
F.R.C.S.  
Buckley, J. P., M.A., M.D. Camb.,  
M.S. Lond., F.R.C.S.  
Rayner, H. H., M.B., Ch.B.,  
F.R.C.S.

#### *Surgery, Operative*

#### *Lecturers :*

Hughes, E. E., M.B., Ch.M.,  
F.R.C.S.  
Southam, A. H., M.A., M.D.,  
M.Ch. Ox., F.R.C.S.

#### *Surgery, Practical*

Roberts, Chas., M.B., B.S. Lond.,  
F.R.C.S. Lectr.

#### *Surgery, Systematic*

Telford, E. D., M.A., B.C. Camb.,  
M.Sc., F.R.C.S. Prof.

#### *Lecturers :*

Hey, W. H., M.B., Ch.B., F.R.C.S.  
Morley, J., M.B., Ch.M., F.R.C.S.  
Graham-Bryce, A., M.D., D.P.H.,  
F.R.C.S. (Regional S).

*Surgical Pathology*

Lecturers :

- Wrigley, P. R., F.R.C.S.  
Wright, G., M.B., Ch.B. Edin.,  
F.R.C.S.  
Buckley, J. P., M.A., M.D. Camb.,  
M.S. Lond., F.R.C.S.

*Therapeutics*, v. Mat. Med.

*Tuberculosis*

- Sutherland, D. P., M.B., B.S.  
Lond. Hon. Clin. Lectr.

*Vaccination*

- [Lectr.  
Chisholm, Catherine, B.A., M.D.

*Venereal Diseases*

Clin. Instructors :

- Reid, W. J. S., M.A., M.D. Aberd.,  
M.R.C.P.  
Whitehead, G., M.B., Ch.B.  
Byrd, Eliz. C., M.Sc., M.B., Ch.B.  
Addis, W. R., M.B., Ch.B. Edin.  
Burke, E. T., D.S.O., M.B., Ch.B.  
Glas.  
Mumford, P. B., M.D., F.R.C.P.

**Bacteriology and Preventive  
Medicine**

(v. also Pathol.)

- Maitland, H. B., M.D. Tor., M.Sc.,  
M.R.C.S., L.R.C.P. Prof.

Lecturers :

- Downie, A. W., M.D. Aberd.  
Fairbrother, R. W., M.D.  
Heap, H., M.Sc. (San. and Bact.  
Chem.).

Asst. Lecturers :

- McGaughey, C. A., M.R.C.V.S.,  
D.V.S.M.  
Kerrin, J. C., M.D., D.P.H. Aberd.  
Shortt, W. M., M.Sc.  
(Chem.) Demr.

*Factory Hygiene*

- Hood, W. D., M.B., Ch.B. Glas.,  
D.P.H. Lectr.

*Public Health Administration*

Lecturers :

- Butterworth, J. J., M.D., D.P.H.

- Walker, E. H., M.B., Ch.B.,  
D.P.H.

*Sanitary Engineering*

- Coleman, G. S., D.Sc. (Eng.) Lond.,  
F.R.S.I. Lectr.

*School Hygiene*

- [Lectr.  
Young, M., M.D. Edin., D.P.H.

*Veterinary Hygiene*

- Woods, W., F.R.C.V.S. Lectr.

*Vital Statistics*

- Scholefield, E. H., M.B., Ch.B. Ox.,  
M.R.C.S., L.R.C.P., D.P.H.  
Lectr.

**Dentistry**

Lecturers :

- ..... (D. Anat. and Physiol.).  
Hutchinson, A. C. W., M.D.S.,  
L.D.S. (D. Mech. and D.  
Prosthetics).  
Houghton, E., L.D.S. Eng. (Pract.  
Op. D. Surg.).  
Graham-Bryce, A., M.D., D.P.H.,  
F.R.C.S. (Regional S.).  
Manley, E. B., L.D.S. (D. Histol.).  
Thompson, Prof. F. C., B.Sc.  
Lond., D. Met. Shef., M.Sc.  
(D. Metall.).  
Rawsthorne, F., L.D.S. Eng. (D.  
Mat. Med.).  
Maitland, Prof. H. B. (D. Bact.).  
Hughes, T. M., M.R.C.S., L.R.C.P.,  
L.D.S. Eng. (Orthodontics).  
Simms, H., M.D., L.D.S. Eng. (D.  
Path. and Surg.).  
Melland, C. H., M.D. Lond., B.Sc.,  
F.R.C.P. (Med.).  
..... (D. Histol.) Demr.

**Theology**

*Biblical Criticism and Exegesis*

- Dodd, Rev. C. H., M.A. Ox., D.D.  
Aberd. Rylands Prof.  
Wardle, Rev. W. L., M.A. Camb.,  
D.D. Dub. (Old Test.)  
Reader.

- Cheetham, Rev. F. P., M.A. Camb.  
(New Test.) Lectr.



Findlay, Rev. J. A., M.A. Camb.  
(New Test.) Lectr.

*Christian Ethics*

Hirst, Rev. E. W., M.A. Lond.,  
B.Sc. Ox. Lectr.

*Comparative Religion*

Murphy, Rev. J., M.A., D.D.,  
D.Litt. Glas. Prof.

*Early Church History*

Grieve, Rev. A. J., M.A. Ox., D.D.  
Lond. Lectr.

*Ecclesiastical History*

Pantin, W. A., M.A. Ox.  
Bishop Fraser Lectr

*Hellenistic Greek*

McLachlan, Rev. H., M.A., D.D.  
Lectr

*History of Doctrine*

Lecturers :

Townsend, Rev. H., M.A. N.U.I.,  
D.D. Lond.

Brewis, Rev. J. T., B.A., B.D.

MacLeavy, Rev. G. W. M., B.D.  
Lond., M.A.

*Philosophy of Religion*

Moberly, W. H., D.S.O., M.A. Ox.,  
Litt.D. Prof.

Lee, A., M.A. Camb. Lectr.

*Psychology of Religion*

Lee, A., M.A. Camb. Lectr.

*Semitic Languages*

Canney, M. A., M.A. Ox. and  
Manc. Prof.

Fish, Rev. T., Ph.D. Camb.  
(Oriental Hist.) Sp. Lectr.

Coggan, F. D., B.A. Camb.  
Asst. Lectr.

**Technology**

Jones, B. Mouat, D.S.O., M.A.  
Ox., Principal of the College  
of Tech. and Dean of the  
Faculty.

*Building Construction*

McKay, W. B., M.R.S.I.,  
M.I.Struct.E. Lectr.

Asst. Lecturers :

Wilson, A. V., M.I.Struct.E.

Reid, D. A. G., B.Sc. (Eng.) Glas

Cormack, W. A. S., A.R.I.B.A.

*Chemistry, Applied*

Kenner, J., D.Sc. Lond., Ph.D.

Heid., F.R.S. (Tech. C.) Prof.

Lecturers :

Wood, J. K., D.Sc., F.I.C. (Phys.  
C.)

McCulloch, A., M.Sc. Tech., A.I.C.  
(Fuels)

Walker, T. K., D.Sc., Ph.D., F.I.C.

Howell, O. R., B.Sc. Wales, Ph.D.

Camb., Wales, and Zür,  
D.Sc., F.I.C.

Bradley, W., M.Sc., Ph.D. (Tinc.  
C. and Dyestuffs).

Handford, C., M.Met. Shef. (Metall.  
and Assaying).

Neale, S. M., M.Sc. Liv. (Cellulose  
C.).

Cardwell, D., M.Sc., B.Com., F.I.C.  
Sp. Lectr.

Asst. Lecturers .

Chadwick, Marion, M.Sc.Tech.  
(Foodstuffs).

Craven, May B., M.Sc.Tech.,  
A.I.C.

Hancock, A., M.Sc.Tech., F.I.C.

Fowler, E. A., B.Sc. Glas. (Metall.  
and Assaying).

Bloomer, V., M.Sc. (Electro-C.).

Ward, A. F. H., B.Sc.Lond., M.A.,  
Ph.D. Camb. (Phys. C.).

Demonstrators :

Mounfield, J. D., M.Sc.Tech.,  
A.I.C.

Shaw, H., M.Sc.Tech.

Derry, L. W., B.Sc. Birm.

Morton, F., M.Sc.Tech.

Statham, F. S., Ph.D. Sheff.

*Chemistry, Textile*

Lecturers :

Scholefield, F., B.Sc. Lond., M.Sc.

Manc. and Leeds, F.I.C.

(Bleaching, Dyeing, and  
Printing).

Bailey, F. W. (Paper-making).  
 Hibbert, Eva, M.Sc.Tech. (Applied C.) Asst. Lectr.  
 Preston, J. M., B.Sc. Liv.  
 (Tex. Chem.) Asst. Lectr.  
 Turner, H. A., M.Sc. Shef. Demr.

### *Engineering, Electrical*

Hollingworth, J., M.A. Camb,  
 D.Sc. Lond, M.I.E.E. Prof

#### Lecturers :

Langton, J. L., M.Sc., M.I.E.E.  
 Moore, A. E., M.Sc.Tech., M.I.E.E.  
 Clayton, A. E., D.Sc. (Eng.) Lond.,  
 M.I.E.E.  
 Jackson, W., M.Sc.

#### Asst. Lecturers :

Glynne, A., M.A. Camb.  
 Freeman, G. F., M.Sc. (Eng.)  
 Lond.  
 Hanney, E. A., M.Eng. Shef.

### *Engineering, Mechanical*

Smith, Dempster, M.B.E., M.Sc.  
 Tech., M.I.Mech.E. Prof.

#### Lecturers :

Boswall, R. O., B.Sc. (Eng.) Lond.,  
 M.Sc.Tech.  
 Threlfall, H., F.R.C.S.I., M.Sc.  
 Tech.  
 Ferguson, R. M., M.Sc.  
 Bevan, T., M.Sc. Tech.  
 Oakden, J. C., M.A. Camb., M.Sc.  
 Tech.

#### Asst. Lecturers :

Brierley, J. C., M.Sc.Tech.  
 Coe, N. W., M.Sc.Tech.  
 Tams, B. J., B.Sc. (Eng.) Lond.  
 Carrington, H., D.Sc., M.Sc.Tech.  
 Grundy, R. H., Ph.D., M.Eng. Liv.  
 Whittaker, J. R., M.Sc.Tech.

### *Engineering, Municipal*

#### Lecturers :

Coleman, G. S., D.Sc. (Eng.) Lond.,  
 F.R.S.I.  
 Johnson, A., M.Sc. Durh., M.R.S.I.  
 Asst. Lecturers :  
 Chadwick, A. S., L.R.I.B.A.,  
 M.R.S.I.

Walton, H., B.Sc.Tech.

### *Industrial Administration*

#### Lecturers :

Fenelon, K. G., M.A., Ph.D. Edin.  
 Garden, D. J., M.A., B.Com. Aberd.  
 Yates, M. L., M.Sc.Tech.

Asst. Lectr.

### *Languages, Modern*

Eaton, R. S., M.A. Asst. Lectr.  
 Jackson, H. S., B.A., Asst. Lectr.

### *Mathematics*

#### Lecturers :

Prescott, J., M.A., D.Sc.  
 Bowman, F., M.A. Camb., M.Sc.  
 Tech.

Topping, J., M.Sc.

#### Asst. Lecturers :

Tilsley, H., B.Sc. (Eng.) Lond.  
 Hawkes, J. H., M.Sc.  
 Howarth, A., B.Sc.

### *Mining*

Williams, N. T., B.Sc. Wales,  
 M.I.M.E. Lectr.

### *Physics*

Lowery, H., M.Sc., Ph.D. Lond.,  
 M.Ed. Leeds Lectr.  
 Walmsley, H. P., D.Sc. Lectr.

#### Asst. Lecturers :

Mercer, H. N., M.A. Tor., Ph.D.  
 Lond., D.I.C.  
 Anderson, W., B.Sc. Glas.  
 Bor, J., B.Sc. Demr.

### *Textile Industries*

[Prof.  
 Morton, W. E., M.Sc.Tech., A.T.I.

#### Lecturers :

Winterbottom, J., M.Sc. Tech.  
 (Spinning).  
 Hanton, W. A., M.Sc.Tech. (Weav-  
 ing and Textile Engin.).  
 Dust, Emily R. (Textile Design).  
 Turner, H. P., M.A., LL.M. (Fac-  
 tory Law).

#### Sp. Lecturers :

Bowden, K. W., B.Com. (Yarn  
 and Cloth Markets).  
 Durand, E. F. (Hosiery Manufac.).

## Asst. Lecturers :

Essam, J. M., M.Sc.Tech., A.T.I.  
 Bennett, G. A., M.Sc.Tech., A.T.I.  
 (Weaving).  
 Riley, A., B.Sc., M.Sc.Tech. (Textile Engin.).  
 Spibey, H., M.Sc.Tech. (Spinning)

## Extra-Mural Department

Director of Extra-mural Studies—  
 H. P. Turner, M.A., LL.M.  
 Staff Tutor—W. Bruce, B.Sc.  
 Lond.  
 Resident Tutor—A. J. Allaway,  
 B.A. Sheff.

## ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY became connected with the Univ. of Manchester in 1905 in the Fac. of Techn., the greater part of the work of which is conducted in the College, whose Principal is Dean. The work of the College includes advanced study and research in the subjects specified above and hydraulic experimental work, motor-car engineering, and india-rubber technology. For early history, see *Yearbook* for 1929.

## COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, UNITARIAN COLLEGE, and VICTORIA PARK METHODIST COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; METHODIST COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Intern. standard for B.Sc. and B.Sc.Tech.: the HARRIS INSTITUTE, Preston.

For third year of B.Sc.Tech. course in Mining: the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

## GENERAL INFORMATION

The Victoria University of Manchester was reconstituted by Royal Charter in 1903 and Owens Coll. incorporated with it by Act of Parl. in 1904. For early history, see *Yearbook* for 1929.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The Departments of Bacteriology and Preventive Medicine and Pathology are  $\frac{1}{2}$  mile distant, adjoining principal hospitals. The athletic ground (30 acres) is at Fallowfield, about  $1\frac{1}{2}$  miles distant.

**LIBRARIES.** The main (Christie) library (over 248,000 vols.) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Medical Society's and the Radford Library (66,000 vols.) are housed in the Med. School, and available for students. There are also in the city of Manchester the John Rylands (310,000 vols.) which includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000 vols.) has valuable mediæval MSS. and printed books of 17th and 18th centuries and a collection of vols. dealing with local history. The Municipal Reference Library (255,000 vols.) is valuable for more recent books and periodicals, and in connexion with it there is a Technical and Science Library (40,000 vols.). The College of Technology Library (17,000 vols.) includes the abridgements of specifications of patents from 1855 to 1925, and is devoted to applied science and technol.

**LABORATORIES, ETC.** Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. *Pathological Museum* (Hon. Curator—Prof. E. D. Telford, M.A., B.C. Camb., M.Sc., F.R.C.S.). The *Manchester Museum* (Keeper—Rev. G. H. Carpenter, D.Sc., M.R.I.A.), forming part of the Univ. buildings and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospls., including the Christie Cancer Pavilion.

**FACULTIES.** (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce and Administration [including Social Study]; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children.] *Deans of Faculties:* (1) Prof. Atkinson (Anc. History); (2) Prof. T. H. Pear (Psychology); (3) Prof. R. A. Eastwood (Law); (4) Prof. J. S. B. Stopford (Anat.); (5) Dr. A. W. Wilcock (Music); (6) Prof. G. W. Daniels (Econ.); (7) Rev. Dr. A. J. Grieve (Theol.); (8) Principal B. Mounat Jones (Technol.); (9) Prof. J. F. Duff (Edn.). *Tutors:* (1) J. Marke, M.A.; (2) J. E. Myers, O.B.E., D.Sc.; (4) A. D. MacDonald, M.A., M.B., Ch.B.; (6) Frances Collier, M.A.

**WOMEN STUDENTS.** Adviser—Phyllis E. Crump, M.A.

**ADMISSION.** See Appendix XXII.

**INDIAN STUDENTS.** Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references as to character and educational qualifications, not later than May 31.

**DEGREE COURSES.** 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.A. (Com.), B.A. (Admin.), B.D. (after Interm. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. (Com.) and B.A. (Admin.) courses can be completed by attendance on evening lectures.

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

**HIGHER DEGREES.** Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.A. (Com.), M.A. (Admin.), M.Sc.Tech.; 2 yrs.—LL.M., M.Ed.; 4 yrs.—D.Sc., LL.D., Mus.D., D.D. Open to Masters or Doctors of Philosophy of the Univ. only: Litt.D.

Open to graduates of other approved Univs through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc.Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs. (D.D. 6 yrs.) standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc.Tech. (v. p. 14).

**DIPLOMAS.** Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S.

only, 12 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H., 1 yr.; Teacher's (grads.), 1 yr.; L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.); Dp. Path. (1 yr. post-grad.); Social Study (2 yrs.; approved grads. and holders of Certif. in Pub. Admin., 1 yr.).

**CERTIFICATES.** Engin., 3 yrs.' course; Applied Chem., 3 yrs.; Archit., 5 yrs.; Mining; Factory or School Hygiene (subsequent to obtaining D.P.H.); Higher Commercial, 2 yrs. (grads. 1 yr.); Public Administration, 2 yrs.; Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Photog. Tech., 2 yrs.; Indust. Admin., 1 yr. (grads. or holders of Cert. in Tech.); Certif. for Teachers of the Deaf, 1 yr. (grads. and certificated teachers). Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc. Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

**SPECIAL COURSES** on Tuberculosis for Med. and Vet. practrs.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Econ., £100 and £120; Engn., two of £200 each; Bot. or Zool., £200; Diseases of Children, £100; History, £50; Local Govt., £50; Physics, £200; Physiol., £90; Cancer Research, £300; Prev. Med., £300; Mun. Engin. or Bact. and Prev. Med., £150; Psychological Med., £150—are open to foreign students; others—in Cotton Industry, £100; History, £50; Agric. Zool., £74—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded. See also App. XXIII. *passim*.

**FEES.** Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 30½ gs. (Hons. in Archit., first 3 yrs. 41½ gs. per session, 4th and 5th yrs. 28½ gs. per session); B.Sc., 30½ to 45½ gs.; M.B., Ch.B. (5 sessions), 154½ gs., *plus* Hospl. fees, 77 gs.; LL.B. (3 sessions), 40 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs. per session); B.A. (Com.), B.A. (Admin.), 20 gs. to 24 gs.; Mus.B., about 20 gs.; B.D.S., 96 gs., *plus* Hospl. fees, 175 gs.; L.D.S., 86 gs., *plus* Hospl. fees, 135 gs.; B.Sc. Tech., £40-£60; Teacher's Dipl., £35:10:6. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate, 5 gs., except M.D., 9 gs., Mus.D., 8 gs., Ph.D., 5s.).

**Note.** Fees for Women students, in the case of B.A., B.Sc., and Teacher's Diploma are ½ guinea per session less than above figures; in M.B., Ch.B., 2½ gs. less, and in B.D.S. and L.D.S., 1½ gs. less.

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law; Educn., 4 gs.; higher fees for science students.

**HOSTELS.** For men: Hulme Hall (Warden), 70 to 84 gs. (*for 25 weeks*); Dalton Hall (Principal), £108 (*for 31 weeks*); St. Anselm's Hall (Warden), £80 (*for 30 weeks*); Lancashire Independent College (Principal), £81 (*full Univ. terms*); Unitarian College (Principal), £90 (*full Univ. terms*). For women: Ashburne Hall (Warden), 66 to 70 gs.; Langdale Hall (Warden), chiefly for women training students, whose fees are £36, private students £70; Ellis Llwyd Jones Hall (Warden), special hostel for students in training as teachers of the deaf, £66 to £70; St. Gabriel's Hall (Warden) (*for Rom. Catholic women students*), £55 to £65.

All PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of

the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (thrice yearly).

**ADULT EDUCATION.** The Committee for the organization of the Extra-mural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself, and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

**PUBLICATIONS.** (1) *Periodical*: (a) *Calendar* (Sept.), 5s. and 3s.; *Prospectus of Advanced Studies: Examm. Papers*, 9d.-1s. 9d. a set, by Faculties; *Manchester School*, March and Oct (Economic and Commercial), 5s. p.a.; *Technology* (pub. at Coll. of Tech.); Departmental Prospectuses (April-May). (b) Also published by Univ. Press: *Journal of Manc. Egyptian and Oriental Soc.*; Pubns. of Chetham Society, Manchester; Pubns. of Brit. Soc. of Franciscan Studies; Bulletin of John Rylands Library. (c) Students' Pubns.: *The Serpent* (Magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. (2) *The Victoria University of Manchester*; a short historical and descriptive account, The Univ. Press, 1930.

*Histories*: "The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.," by Joseph Thompson. Manchester, J. E. Cornish, 1886. "The Owens College," by P. J. Hartog. Manchester, J. E. Cornish, 1900.

## THE YEAR 1931-32

**BENEFACTIONS.** Bequests of late Mrs. Kate Greatorex: £5000 for Scholarships in Engin.; £3000 for Scholarships in Appld. and Organ. Chem. and, subject to other bequests, the balance of residuary estate for further Scholarships in Engin. Bequest of £500 of late Hon. Prof. Herford for promotion of study of internat. relations, including Comparative Literature.

**NEW BUILDINGS.** Extension of Ashburne Hall (Women) for addnl. 33 students completed and named "Lees Wing." Lees Hall subsequently closed. Reconstruction of Zoological Labs. to provide addnl. accommodation.

**OTHER DEVELOPMENTS.** Regional Investigation Section of Faculty of Comm. and Administration estd. to undertake industrial survey of Lancashire and Cumberland; John Jewkes appointed Supervisor. Closer co-operation secured between Royal Infirmary and Depts. of Pathol. and Bacteriol. Independent dept. for Training Teachers of Deaf establd. in the Fac. of Education.

**CHANGES IN REGULATIONS.** Hons. School of Econ. and Polit. Sci. remodelled as Hons. School of Econ., Politics, and Mod. Hist. Hons. School of Geog. and Anthropol. instituted in Fac. of Sci. in addition to Hons. School of Geog. in Fac. of Arts.

**EXTRA-MURAL WORK.** 54 Tutorial classes and 13 Preparatory and other classes in 42 different towns. Six extension courses at Univ. and outside centres in addition to 37 lectures and 3 other courses given for teachers and public under auspices of Lancashire and Cheshire County Councils. Bangor Summer School held in July and August.

**VISITS OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS.** Prof. R. Jasinski (French Lang. and Lit.; Lille) lectured in Jan. 1932 in Fac. of Arts, and publicly under scheme of interchange. Mr. R. W. James, Sen. Lectr. in Physics, engaged in research at Leipzig during session.

DEATHS. Emer. Prof. W. Stirling (Physiol.) ; E. W. V. Clifton (Classics) ; Sir T. Legge (Factory Hygiene) ; A. Adamson (Physics) ; W. S. Barratt ; (Maths.).

RESIGNATIONS. E. A. Knight (Treasurer since 1924) ; Prof. P. Rebora, on appt. as Serena Prof. and Director of Studies, Brit. Inst., Florence ; Rt. Rev. R. G. Parsons, on election as Bishop of Southwark ; E. J. Wood, on appt. to Chair of Latin, Univ. Coll. of Wales, Aberystwyth ; H. V. Lowry, on appt. as Head of Maths. Dept., Woolwich Polytechnic.

RETIREMENTS. Prof. Miles Walker (Elec. Eng.) ; Prof. H. Bompas Smith (Educ.) ; Prof. T. E. Gregory (Social Econs.) ; C. W. Gamble (Photog. Tech.).

HONORARY DEGREES. LL.D.—Edward Fiddes, F. E. Weiss, W. D. Ross, Lord Rutherford, Sir J. Arthur Salter, W. R. Sickert. D.Sc.—Sir James H. Jeans. M.A.—F. W. Bates, J. L. Gleave, W. T. Jackson, L. S. Jast.

STUDENTS. Full-time, 2425 ; part-time, 407. These numbers include 472 graduates who registered for courses.

DEGREES. Litt.D., 1 ; D Sc., 7 ; LL.D., 1 ; M.D., 8 ; Ph.D., 5 ; M.A., 17 ; M.Sc., 27 ; LL.M., 1 ; Ch.M., 1 ; M A. (Com.), 3 ; M.A. (Admin.), 2 ; M.Sc.Tech., 18 ; M Ed., 6 ; B A., 162 , B Sc., 137 ; LL.B., 22 ; M.B., Ch.B., 32 ; B.D.S., 1 ; B A. (Com.), 32 ; B A. (Admin), 13 ; B D., 11 ; B.Sc.Tech., 71.

# UNIVERSITY OF OXFORD

CHANCELLOR—Right Hon. EDWARD, VISCOUNT GREY, K G, D.C.L.  
Hon. Fellow of Balliol College.

HIGH STEWARD—Rt. Hon. LORD SANKEY OF MORETON, G.B.E., B.C.L.  
M.A., Hon. D.C.L., Hon. Fellow of Jesus College.

VICE-CHANCELLOR—Rev. F. J. LYS, M.A., Provost of Worcester.

PROCTORS—T. F. HIGHAM, M.A. Trin.; J. G. EDWARDS, M.A. Jesus

REPRESENTATIVES IN PARLIAMENT (BURGESSES OF THE UNIVERSITY)—

Rt. Hon. LORD HUGH R. H. CECIL, M.A., Hon. D.C.L. Hertford

Sir CHAS. W. C. OMAN, M.A., Hon. D.C.L. All Souls.

ASSESSOR OF THE CHANCELLOR'S COURT—A. E. W. HAZEL, K.C.  
B.C.L., M.A., Principal of Jesus.

PUBLIC ORATOR—C. BAILEY, M.A. Ball.

BODLEY'S LIBRARIAN—H. H. E. CRASTER, M.A., D.Litt. Ball.

KEEPER OF THE ARCHIVES—S. GIBSON, M.A. Cath.

REGISTRAR—D. VEALE, C.B.E., M.A. C.C.C.

SECRETARY OF FACULTIES—H. M. MARGOLIOUTH, M.A. Oriel.

ASSISTANT REGISTRAR—S. CALDWELL, M.A. Wadham.

NOTE.—The Colleges and Heads of Colleges are given on pp. 213 ff.

## PROFESSORS, LECTURERS, ETC.

*Agriculture*, v. *infra* Rural Econ.

*Anatomy*, v. also Zoology, Med.  
Thomson, A., M.A. Ch. Ch.

Dr. Lee's Prof.

Dodds-Parker, A. P., B.M., M.A.

Magd. (Applied A.) Reader.

Odgers, P. N. Blake, M.Ch., D.M.

Linc. Reader.

Carleton, Mrs., M.A., O.H.S.

Demr.

Blackwood, Miss B. M., B.Sc.,

M.A. Som. (Ethnol.) Demr.

*Anglo-Saxon*

Tolkien, J. R. R., M.A. Pemb.

Rawlinson and Bosworth Prof.

*Anthropology, Physical* [Reader.

Buxton, L. H. D., M.A., D.Sc. Exe.

*Anthropology, Social* [Reader  
Marett, R. R., M.A., D.Sc. Exe.

Macnicol, N., D.D., D.Litt. Glas

Wilde Lectr. in Nat. and

Comp. Relig.

*Archæology*, v. also Orienta

Langs. and Papyr.

Beazley, J. D., M.A. Linc. (Classi

cal A. and Art) Lincoln Prof

Casson, S., M.A. New (Classica

A.) Reader

Lorimer, Miss H. L., M.A. Som

(Homeric A.) Lectr

*Aramaic*, v. Oriental Langs.

*Art*

Gleadowe, R. M. Y., M.A. New

(Fine Art) Slade Prof



Rutherford, A. (Drawing)

Ruskin Master.

*Assyriology*, v. Oriental Languages

*Astronomy* [Savilian Prof.

Plaskett, Prof H H, M A New

Knox-Shaw, H., M.A., D.Sc. Trin.

Radcliffe Observer.

Bellamy, F. A., Hon. M.A.

First Asst.

Bellamy, Ethel F. Asst.

Fotheringham, J. K., M.A., D.Litt.

Magd.

Reader in Ancient Ast.

and Chronology.

Hughes, J. S., M.A. New Coll.

Seismol. Asst.

*Bio-Chemistry* [Whitley Prof.

Peters, R. A., M C., M A. Trin.

Whitley, E., M.A. Trin. Demr.

Walker, E., D.Phil. St. Joh. Demr.

Carter, C. W., B.M., M.A. Queen's

Demr.

*Botany*, v. also Rural Econ.

Tansley, A. G., M.A. Magd, F.R.S.

Sherardian Prof.

Clapham, A. R., M.A. Magd.

Demr

Wilkins, W. H., M.A. Keb. Demr.

James, W. O., D.Phil. Oriel Demr.

..... Herbarium Curator.

*Celtic*

Fraser, J., M.A. Jes. Jesus Prof.

*Chemistry* [Waynflete Prof.

Robinson, R., M.A. Magd., D.Sc.

Manc., F.R.S.

Soddy, F., M.A. Exe., F.R.S.

(Phys. Chem.) Dr. Lee's Prof.

Sidgwick, N. V., M.A. Linc., F.R.S.

Reader.

Lectrs. :

Chapman, D. L., M.A. Jes. (Phys.

Chem.).

Russell, A. S., M.A. Ch. Ch. (In-

org. C.).

Hinshelwood, C. N., M.A. Trin.

(Chem. Dynamics).

Demrs. :

Hope, E., M A. Magd.

Hammick, D. L., M.A. Oriel.

Plant, S. G. P., B.Sc., M A.,

D.Phil. Magd.

Taylor, T. W. J., M.A. B.N.C.

Baker, W., M A New Coll

Smith, J. C., M.Sc. N.Z., Ph.D.

Manc, M A., B.Sc. New Coll

Lambert, B., M.A., D.Sc. Mert.

Aldrichian Prælector.

Walden, A. F., M.A. New Coll.

Hartley, E. G J., M.A. Ch. Ch.

Brewer, F. M., B.Sc., M.A. Linc.

*Classics*, v. also Archæol.

Murray, Gilbert, M.A., D.Litt.

Ch. Ch. (Greek) Reg. Prof.

Tod, M. N., M.A. Or (Greek Epi-

graphy) Reader.

Clark, A. C., M.A. C.C.C. (Latin)

Corpus Prof.

Lobel, E., M.A. Qu.

Research Student (Gk. Lit.).

*Diplomatic*

[Reader.

Galbraith, V. H., M.A. Ball.

*Divinity*, v. Theology

*Economics*, v. also Pol. Econ.

Cole, G. D. H., M.A. Univ. Reader.

Mitchell, W. C., M A.

George Eastman Visiting Prof.

*Education*

[Dir. of Training.

Smith, G., M.A. Trin.

Keatinge, M. W., M.A., D.Sc. Exe.

Reader.

Talbot, Elfrida M., M.A. St. Hu.

Lectr. and Tutor to

Women Students, and

Principal of the

Women's Hostel.

Lectrs. and Tutors :

Icely, H. E. M., M.A. B.N.C.

Jones, L. G. E., M.A. Ball.

Tomlinson, Leila, M.A. Som.

*Egyptology*, v. Oriental Langs.

*Embryology*, v. Zool.

*Engineering Science*, v. also Surveying  
Southwell, R. V., M.A. Camb., F.R.S. Prof.  
Moullin, E. B., M.A. Magd. Reader.  
Binnie, A. M., M.A. Balliol Demr.  
Belfield, V., M.A. B.N.C., M.A. Camb. Demr.  
Landale, S. E. A., Ph.D. Camb. Demr.

*English*, v. also Anglo-Saxon, Poetry  
Smith, D. Nichol, M.A. Edin., Hon. D.Litt. Dur., M.A. Mert. (E. Lit.). Merton Prof.  
Wyld, H. C. K., B.Litt., M.A. Mert. (E. Lang. and Lit.) Merton Prof.  
Simpson, P., M.A. Or. Goldsmiths' Reader.  
Onions, C. T., M.A., Hon. D.Litt. Magd. Reader in Eng. Phil.  
Brett-Smith, H. F. B., M.A. C.C.C. Reader in Eng. Lit.  
Wrenn, C. L., M.A. Qu. (E. Lang.) Lectr.  
Everett, Dorothy, M.A. L.M.H. (Middle Eng.) Lectr.

*Forestry*, v. also Surveying, Rural Econ.  
Troup, R. S., M.A., D.Sc. St. J., F.R.S. Prof. Demrs. :  
Bourne, R., M.A. Trin. (F. Management).  
Chalk, L., M.A. Univ. (Structure, etc. of Wood).  
Day, W. R., B.Sc., M.A. Exe. (Mycol. and Pathol.).  
Chrystal, R. N., D.Sc. Edin., M.A. (Entomol.).  
Lloyd, A. H., M.C., M.A. Exe. (F. Utilization and Engin.).  
Imperial Forestry Institute :  
Director—Prof. R. S. Troup.  
Lectrs. :  
The Demrs. above.  
Macdonald, J., B.Sc. Edin. (Silvicult.).

Davy, J. Burt, M.A. Univ. (Syst. F. Bot.).  
Hoyle, A. C., B.Sc., M.A. Pem. (Syst. F. Bot.).  
Brown, J. M. B., B.Sc. Belf. (F. Entomol.).  
Stocker, C. L., B.A. Univ. (Structure, etc. of Wood).  
Chattaway, Mary M., B.Sc., M.A. St. Hugh's (Structure, etc. of Wood).  
Peace, T. R., B.A. (Mycol. and Pathol.).  
Williamson, H. S., M.A. Ch. Ch. (F. Law).

*French*

Rudler, G., Dr. ès L. Paris, M.A. All. S (Fr. Lit.) Foch Prof.  
Pope, Mildred K., M.A. Som. (Fr. Philol.) Reader.  
Vinaver, E., B.Litt., M.A. Linc. (Fr. Lit.) Reader.  
Lectrs. :  
Moore, W. G., M.A. Magd.  
Skipworth, Margaret G., M.A., L.M.H.  
Taylor, F. A., M.A. Ch. Ch.

*Genetics*, v. Zool.

*Geography*, v. also Surv.

Mason, K., M.A. Hert. Prof.  
MacMunn, Nora E., M.A. Soc.O.H.S. (Regional G.) Lectr.  
Baker, J. N. L., B.Litt., M.A. Jes. Lectr.

Tutors :

Kendrew, W. G., M.A. Cath.  
Buxton, L. H. D., M.A., D.Sc. Exe. (v. Anthrop.).  
Sandford, K. S., M.A., D.Phil. Univ.

*Geology*

[Prof.]  
Sollas, W. J., M.A. Univ., F.R.S.  
Demrs. :  
Douglas, J. A., M.A., D.Sc. Keb.  
Bayzand, C. J., M.A. Cath.

Sandford, K. S., M.A., D.Phil.  
Univ. (Pleistocene G.).

*Geometry* [Savilian Prof.  
Titchmarsh, E. C., M.A. New Coll.

*German* [Taylor Prof.  
Fiedler, H. G., M.V.O., M.A. Qu.  
(G. Lang. and Lit.)

Boyd, J., M.A., B.Litt. St. Cath.  
Reader  
Bostock, J. K., M.A. B.Litt.,  
Wadham Lectr.

*Greek, Byzantine and Modern,  
Lang. and Lit.*

Dawkins, R. MacG., M.A. Exe.  
Bywater & Sotheby Prof.

*Greek and Latin Lit.*  
Lectrs. :

Bailey, C., M.A. Ball.  
Barber, E. A., M.A. Exe.  
Denniston, J. D., M.A. Hert.

*Greek Lit.*  
Poynton, A. B., M.A., D.Litt.  
Univ. Lectr  
Bowra, C. M., M.A. Wadh. Lectr.

*Hebrew, v. Oriental Langs.*

*History, American*  
McElroy, R. McN., M.A. Queen's  
Harold Vyvyan Harms-  
worth Prof.

*History, Ancient, v. also Archæol.*  
Anderson, J. G. C., M.A. B.N.C.  
Camden Prof.  
Myres, J. L., M.A. New Coll.  
Wykeham Prof.

Lectrs. :  
Stevenson, G. H., M.A. Univ.  
Collingwood, R. G., M.A. Pemb.  
(Rom. Hist.).  
Last, H. M., M.A. St. J. (Rom.  
Hist.).  
Parker, H. M. D., M.A. Magd.  
(Rom. Hist.).  
Macgregor, D. C., M.A. Ball.  
(Greek Hist.).  
Wade-Gery, H. T., M.A. Wadh.  
(Greek Hist.).

*History, Colonial* [Beit Prof.  
Coupland, R., M.A. All S.  
Fay, C. R., D.Sc. Camb. (1933-34)  
Beit Lectr.

*History, Eccl., v. Theology*

*History, Econ., v. Pol. Econ.*

*History, English*  
Thompson, A. H., M.A., D.Litt.  
Durh. (1932-1933)

Ford's Lectr.  
Namier, Prof. L. B., M.A. Ball.  
(1933-34) Ford's Lectr.

*History, Indian*  
Corbett, Sir G. L., K.B.E., C.I.E.,  
M.A. Hert Reader.

*History, Mediæval*  
Jamison, Evelyn M., M.A. L.M.H.  
Lectr  
Poole, A. L., M.A. St. J. Lectr  
Jolliffe, J. E. A., M.A. Keble  
(Engl. Mediæval). Lectr.

*History, Military, v. Milit. H.*

*History, Modern, v. also Dipl.*  
Powicke, F. M., M.A. Or., Litt.D.  
Liv., F.B.A. Reg. Prof.  
Oman, Sir Charles W. C., K.B.E.,  
M.A., Hon. D.C.L. All S.  
Chichele Prof.

Lectrs. :  
Legg, L. G. W., M.A. New Coll.  
Feiling, K. G., M.A., D.Litt. Ch. Ch.  
Edwards, J. G., M.A. Jesus.  
Hodgkin, R. H., M.A. Queen's.  
Ogg, D., M.A. New Coll.  
Deane-Jones, I., M.A. Mert.  
Clarke, Maude V., M.A. Som.  
Sumner, B. H., M.A. Ball. (E.  
European).  
Thompson, J. M., M.A. Magd.  
(Mod. French).  
Keir, D. L., M.A. Univ. (Engl.  
Const.).

*Italian*  
Foligno, C. C., M.A. Magd.  
Serena Prof.

- Vincent, E. R. P., M.A. Ch. Ch. Lectr.  
*Law, v. infra*  
*Logic* [Wykeham Prof  
 Joachim, H. H., M.A. New Coll.  
*Mathematics, Pure*  
 Dixon, A. L., M.A. Magd., F.R.S. Waynflete Prof  
*Mathematics* [Rouse Ball Prof.  
 Milne, E. A., M.A. Trin., F.R.S.  
 Pidduck, F. B., M.A., D.Sc. Corp. Reader  
 (Applied Maths)  
 Ferrar, W. L., M.A. Hert. Lectr.  
 Hodgkinson, J., M.A. Jesus Lectr.  
 Poole, E. G. C., M.A., D.Phil. New Coll. Lectr.  
*Medicine, v. infra*  
*Meteorology, v. Philosophy Expl.*  
*Military History*  
 Swinton, Maj.-Gen. Sir Ernest D., K.B.E., C.B., D.S.O., M.A., All S. Chichele Prof.  
*Mineralogy*  
 Bowman, H. L., M.A., D.Sc. Magd. Waynflete Prof.  
 Spiller, R. C., M.A. Cath. Demr.  
*Music* [Heather Prof.  
 Allen, Sir H. P., M.A., D.Mus. New Stewart, H. C., M.A., D.Mus. Magd.  
 Choragus (Asst. to Prof.).  
*Numismatics* [Reader.  
 Milne, J. G., M.A., D.Litt. C.C.C.  
*Oriental Languages, v. infra*  
*Palæography*  
 Lowe, E. A., M.A., C.C.C. Reader.  
*Papyrology*  
 Hunt, A. S., M.A., D.Litt. Qu. Prof  
*Philology, Comparative* [Prof.  
 Braunscholtz, G. E. K., M.A. Worc.  
*Philosophy*  
 Lectrs.:  
 Carritt, E. F., M.A. Univ.
- Collingwood, R. G., M.A. Pemb.  
 Ross, W. D., M.A. Or  
 Price, H. H., B.Sc., M.A. Trin.  
 Mure, G. R. G., M.A. Mert.  
*Philosophy, Expl.*  
 Lindemann, F. A., M.A. Ch. Ch., F.R.S. Lee's Prof.  
 Dobson, G. M. B., M.A., D.Sc. Linc., F.R.S.  
 Reader (Meteorol.) & Demr.  
 Keeley, T. C., M.A. Wadh. Demr  
*Philosophy, Mental, v. also Logic*  
 Brown, Wm., D.M. Ch. Ch. Wilde Reader.  
*Philosophy, Moral, & Metaphys.*  
 Smith, J. A., M.A. Magd. Waynflete Prof.  
*Philos., Moral*  
 Prichard, H. A., M.A. C.C.C. White's Prof.  
*Philos., Natural*  
 Love, A. E. H., M.A., D.Sc. Qu., F.R.S. Sedleian Prof.  
*Physics*  
 Townsend, J. S. E., M.A. New Coll., F.R.S. Wykeham Prof.  
 Demrs.:  
 Lattey, R. T., B.Sc., M.A. Trin.  
 Gill, E. W. B., B.Sc., M.A. Mert.  
 Morrell, J. H., M.A. Magd.  
 Biggs, H. F., M.A. Trin.  
 McCallum, S. P., M.A., D.Phil. New Coll.  
 Donaldson, R. H., M.A. Univ.  
*Physiology, v. also Medicine*  
 Sherrington, Sir Charles S., O.M., G.B.E., M.A., D.Sc. Magd. and Lond., F.R.S.  
 Waynflete Prof.  
 Douglas, C. G., B.Sc., D.M. St. J. (Gen. Metabolism) Demr  
 Liddell, E. G. T., D.M. Trin. Demr  
 Carleton, H. M., B.Sc., M.A., D.Phil. New Coll. (Animal Histol.) Demr.

Cooper, Sybil, M.A. St. Hild.

Demr.

Creed, R. S., D.M. New Coll

Demr.

*Poetry*

de Séhincourt, E., M.A., D.Litt.  
Univ. Prof.

*Political Econ.*

Macgregor, D. H., M.A. All S.

Drummond Prof.

Clark, G. N., M.A. All S. (Econ.  
Hist.) Chichele Prof.

Lennard, R. V., M.A. Wadh. (Ec.  
Hist.) Reader.

Harrod, H. R. F., M.A. Ch. Ch.  
Lectr.

Hargreaves, E. L., M.A. Or Lectr.

*Political Theory and Institns.*

Adams, W. G. S., M.A. All S

Gladstone Prof.

McCallum, R. B., M.A. Pem. (Mod  
Pol Econ.) Lectr.

*Religion, v. Theology*

*Romance Lang.*

Ewert, A., M.A. Trin. Prof.

*Rural Economy, v. infra*

*Slavonic Studies*

Konovalov, S., B.Litt. Exe. Lectr.

*Spanish*

Entwistle, W. J., M.A. Aberd.

King Alfonso XIII. Prof.

Kolkhorst, G. A., M.A. Exe.  
Reader.

Alonso, D., D.Phil., D.Litt. Madrid  
Lectr.

*Surveying* (for Engin., Rural Ec.,  
Forestry, Geog. Students, and  
Trop. Admin. Services probrs.).

Tandy, Lt.-Col. M. O., D.S.O.,  
O.B.E., M.A. Instr.

*Theology, v. infra*

*Thermodynamics*

Egerton, A. C. G., M.A. Ball.,  
F.R.S. Reader.

*Zoology and Comp. Anat.*, v. also  
Rural Econ.

Goodrich, E. S., M.A., D.Sc. Mert.,  
F.R.S. Linacre Prof.

Carpenter, G. D. H., M.B.E., D.M.  
Hope Prof

Demrs. :

de Beer, G. R., B.Sc., M.A. Mert.  
Jenkinson Lectr. in  
Comp. and Exper.  
Embryol.

Elton, C. S., M.A. New Coll.

Tucker, B. W., M.A. Magd.

Baker, J. R., M.A., D.Phil. New  
Coll.

Ford, E. B., B.Sc., M.A. Wadh.

*Law*

*Civil* [Reg. Prof.

De Zulueta, F., D.C.L. All S.

*Criminal, and Evidence*

Stallybrass, W. T. S., O.B.E.,  
D.C.L., B.N.C. Reader

*English*

Holdsworth, Sir W. S., K.C.,  
D.C.L. All S. Vinerian Prof.

Hazel, A. E. W., C.B.E., B.C.L.,  
M.A. Jes., K.C.

All Souls Reader

Fifoot, C. H. S., M.A. Hert. Lectr.

Landon, P. A., M.A. Trin. Lectr.

*Equity*

Hanbury, H. G., B.C.L., M.A.  
Linc. Lectr.

*Indian*

Lindsay, Sir Benjamin, M.A. Univ.  
Reader.

*Internat., and Diplomacy*

Brierly, J. L., O.B.E., D.C.L. All  
S. Chichele Prof.

Miles, Sir John C., B.C.L., M.A.  
Mert.

(Comp. Legal Hist.) Lectr.

*Internat. (Private)* [Lectr.

Cheshire, G. C., D.C.L., M.A. Exe.

*International Relations*

Zimmern, A. E., M.A. New Coll.  
Montague Burton Prof.

*Jurisprudence*

[Prof.  
Goodhart, A. L., D.C.L. Univ.

*Roman*

[All Souls Reader.  
Lawson, F. H., M.A.

*Roman-Dutch*

[Rhodes Prof.  
Lee, R. W., D.C.L. Ball.

*Medicine*

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Anatomy, Morbid*

Gibson, A. G., D.M. Ch. Ch.  
Reader.

*Clinical Physiology*

Priestley, J. G., D.M. Ch. Ch.  
Reader and Demr.

*Medicine*

Buzzard, Sir E. Farquhar, Bt.,  
K.C.V.O., D.M. Magd.  
Reg. Prof.

Mallam, E., D.M. Magd  
Litchfield Lectr.

*Ophthalmology*

Adams, P. E. H., B.M., M.A. Exe.  
Margaret Ogilvie's Reader.

*Pathology*, v. also Anat. [Prof.

Dreyer, G., C.B.E., M.A. Linc.  
Walker, E. W. A., D.Sc., D.M.  
Univ. Reader.  
Vollum, R. L., M.A., D.Phil. Linc.  
Demr.

*Pharmacology*

Gunn, J. A., M.A. Ball. Prof.  
MacKeith, M. H., D.M. Magd.,  
Dean of Med. Sch. Demr.  
Franklin, K. J., D.M. Or. Demr.

*Surgery*

Rose-Innes, R. H., M.B., Ch B.  
Edin. Litchfield Lectr.

*Oriental Languages*

*Arabic*

Margoliouth, D. S., M.A., D.Litt.  
New Coll. Laudian Prof.

*Aramaic*

[Reader.  
Stenning, J. F., C.B., M.A. Wadh.

*Assyriology*

[Shillito Reader.  
Langdon, S., M.A. Jes. Prof. &

*Bengali*

Thompson, E. J., M.A. Or.  
(I.C.S. Delegacy) Lectr.

*Burmese*

Rigg, A. E., M.A. Corp. Lectr.

*Chinese*

Soothill, W. E., M.A. Trin. Prof.

*Egyptology*

Griffith, F. Ll., M.A., D.Litt Qu  
Actg. Reader.

*Hebrew*

Cooke, Rev. Canon G. A., D.D.  
Ch. Ch. Reg. Prof.  
Driver, G. R., M.A. Magd. (Semitic  
Phil.) Reader.  
Rabinovitch, C. I., B.A. Univ.  
Cowley Lectr

*Persian and Marathi*

Seddon, C. N., M.A. Ball. Lectr.

*Sanskrit*

[Boden Prof.  
Thomas, F. W., C.I.E., M.A.,  
Ph.D. Ball., F.B.A.

*Tamil and Telugu*

Roberts, S. G. Lectr.

*Urdu and Hindi*

Dewhurst, R. P., M.A. Ball. Lectr.

*Rural Economy*

Watson, J. A. S., M.A. St. J.  
Sibthorpe Prof.  
Morison, C. G. T., M.A., Ch. Ch.  
(Soil Sci) Reader.  
Skilbeck, D., M.A. Joh. Demr.  
Ellis, J. C. B., M.A. Jes.  
(Physics & Chem.) Demr.  
Cunliffe, N., M.A. Wadh.  
(Agr. Entomol.) Demr.

*Agr. Botany* [Demr.  
Bancroft, Helen, M.A. Marg. H.

*Agr. Chemistry*  
Clarke, G. R., B.Sc., M.A. Or.  
Advisory Chemist.

*Agr. Economics*, v. also Farm  
Acctcy.

Agr. Econ. Research Inst.  
Orwin, C. S., M.A. Ball. Director.  
Bridges, A., M.A. Linc.

Deputy Director.  
Research Officers:

Dixey, R. N., B.A. St. Joh. ;  
Prewett, F. J., M.A. Ch. Ch. ,  
Lee, J. R., B.Sc. Leeds ; Max-  
ton, J. P. , B Sc , M A Glas ,  
B.Litt. Ball.

Assistants :  
Messer, M., B.A. St. Joh. ; Murray,  
K. A. H., B.Sc. Edin , Ph.D.  
Cornell, B Litt. Oriel

*Agr. Economics and History*  
Amery, G. D., M.A. B.N.C. Lectr.

*Agr. Engineering*  
Agr. Eng. Research Inst. :  
Denham, H. J , D.Sc. Ball.  
Director.

*Agr. Law*  
Cheshire, G. C., D.C.L. , M.A. Exe.  
Lectr.

*Farm Acctcy. and Loc. Govt.*  
Orwin, C. S., M.A. Ball. (Dir. of  
Inst. for Research in Agr.  
Economics) Lectr.

### Theology

Lightfoot, Rev. R. H., M.A. New  
Coll.

Speaker's Lectr. in Bibli-  
cal Studies.

Kirk, Rev. K. E., D.D. Trin.  
Reader in Moral Theol.

Brook, Rev. V. J. K., M.A. Mert  
(Reformation Theol.) Lectr.

Wand, Rev. J. W. C., M.A. Or.  
(Church Hist) Lectr.

*Divinity*  
Goudge, Rev. Canon H. L., D.D.  
Ch. Ch. Reg. Prof.  
Williams, Rev. Canon N. P., D.D.  
Ch. Ch. Lady Margaret Prof.

*Eccles. History*  
Watson, Rev. Canon E. W., D.D.  
Ch. Ch. Reg. Prof.

*Exegesis*  
Streeter, Rev. Canon B. H. , M.A.  
Qu Dean Ireland's Prof

*Interpretation of Holy Script.*  
Simpson, Rev. D. C., D.D. Or.  
Oriel Prof.

*Nat. and Comparative Religion*  
Macnicol, N., D.D. , D.Litt. Glas  
Wilde Lectr.

*Pastoral Theology*  
..... Reg. Prof.

*Philos. of Christian Religion*  
Grensted, Rev. L. W., D.D. Or.  
Oriel Prof.

*Septuagint* [Grinfield Lectr.  
Billen, Rev. A V , D.D. Univ.

George Eastman Visiting Prof.  
1932-33. *Suspended.*

Bampton Lecturer  
(alternate years)  
1934, Rev. R H Lightfoot, M.A.  
New Coll.

Romanes Lecturer  
1932-33, Sir W. Henry Hadow,  
C.B.E. , M.A. , D.Mus.

Sidney Ball Lecturer in Econ.  
1932-33, Rt Hon. Viscount Cecil  
of Chelwood, M.A. , D.C.L.  
Univ. "The Machinery of  
Government"

**Sir Basil Zaharoff Lecturer**

1932-33, Sir J. G. Frazer, O M,  
D C L Camb.

**Herbert Spencer Lecturer**

1932-33, A. Einstein, D.Sc., Ch Ch

**Taylorian Lecturer**

1932-33, G S Gordon, M.A.

**Halley Lecturer**

1933, H N. Russell, A M., Ph D  
Princeton, (Mt. Wilson Ob-  
servatory)

**University Extension**

Lecturers employed under the  
direction of the Extra-mural  
Studies Delegation (about 30).

**THE COLLEGES**

**ALL SOULS COLLEGE.** Founded 1437. Warden—The Right Hon. Viscount  
Chelmsford, G.C.M.G., G.C.S.I., G.C.I.E., G.B.E., M.A., D.C.L.

**Fellows:**

Cholmondeley, F. G., M.A.  
Oman, Prof. Sir Charles W. C., K.B.E.,  
M.A., D.C.L., LL.D., *Librarian*.  
Robertson, Sir Charles G., C.V.O.,  
M.A.  
Simon, Rt. Hon. Sir John A., G.C.S.I.,  
K.C.V.O., M.A., D.C.L., LL D.,  
K.C.  
Dawson, G. G., M.A.  
Malcolm, D. O., M.A.  
Craster, H. H. E., M.A., D.Litt.  
Pollard, A. F., M.A., Litt.D., F.B.A.  
Wilkinson, H. Spenser, M.A., Litt.D.  
Archibald, J. G., M.A., *Sub-Warden*.  
Adams, Prof. W. G. S., M.A.  
Somervell, D. B., M.A., K C., *Dean*.  
de Zulueta, Prof. F., D.C.L.  
Woodward, E. Ll., M.A.  
Faber, G. C., M.A.  
Coupland, Prof. R., C.I.E., M.A.  
Curtis, L. G., M.A.  
Lee, Prof. R. W., D.C.L.  
Macgregor, Prof. D. H., M.A.  
Holdsworth, Prof. Sir W. S., D.C.L.,  
LL.D., K.C.  
Jacob, E. F., M.A., D.Phil., Ph.D.

Harris, C. R. S., M.A., D.Phil.  
Irwin, Lord, K.G., G.C.S.I., G.C.I.E.,  
M.A.  
Greene, W. A., O.B.E., M.C., C.G.,  
M.A., K.C.  
Brierly, Prof. J. L., O.B.E., D.C.L.  
Radcliffe, C. J., M.A.  
Headlam, Rt. Rev. A. C., C.H., D.D.  
Swinton, Prof. Maj.-Gen. Sir Ernest D.,  
K.B.E., C.B., D.S.O., M.A., *Dean*.  
Pares, R., M.A.  
Foster, J. G., M.A.  
Rowse, A. L., M.A.  
Makins, R. M., M.A.  
Rudler, Prof. G., M.A.  
Jones, A. H. M., M.A.  
Hudson, G. F., M.A.  
Dannreuther, D. S., M.A.  
Moon, E. P., B.A.  
Hodson, H. V., B.A.  
Sparrow, J. H. A., B.A.  
Rickett, D. H. F., B.A.  
Jay, D. P. T., B.A.  
Bowen, I. I., B.A.  
Clark, G. N., M.A.  
Hogg, Hon. Q. McG., B.A.  
Rees, M. G., B.A.

**BALLIOL COLLEGE.** Founded 1263-1268. *Master*—A. D. Lindsay, C.B.E.,  
M.A., LL.D.

**Fellows:**

Urquhart, F. F., M.A., *Tutor (Mod.  
Hist.)*.  
Hartley, Sir Harold, M.A., F.R.S.  
Bailey, C., M.A., *Tutor (Classics)*.  
Merton, T. R., M.A., D.Sc., F.R.S.  
Bell, K. N., M.A., *Tutor (Mod. Hist.)*.  
Macgregor, D. C., M.A., *Tutor (Classics)*.

Ridley, Rev. M. R., M.A., *Tutor  
(Engl. Lit.)*.  
Morris, C. R., M.A. *Tutor (Classics),  
Jowett Lecturer (Philos.), and  
Tutor for Admissions*.  
Orwin, C. S., M.A., *Estates Bursar*.  
Rodger, A. B., M.A., *Tutor (Economics)*.  
Sumner, B. H., M.A., *Tutor (Mod. Hist.)*.



Gunn, J. A., M.A., *Prof. of Pharmacology*.  
 Mynors, R. A. B., M.A., *Tutor (Classics), Librarian*.  
 Thomas, F. W., M.A., Ph.D., *Prof. of Sanskrit*.  
 Barry, Rev. Canon F. R., M.A., *Tutor (Theol.)*.  
 Galbraith, V. H., M.A., *Reader in Diplomatic and Tutor (Hist.)*.  
 Fulton, J. S., M.A., *Tutor (Philos.)*.  
 Hardie, C. G., M.A., *Tutor (Classics)*.  
 Duke, A. C. H., D.S.O., C.M.G., M.A., *Home Bursar*.  
 Tylor, T. H., M.A., B.C.L., *Tutor (Jurispr.)*.

Gatty, O., B.A., *Tutor (Science)*.  
 Allan, D. J., B.A., *Tutor (Classics)*.  
 Allen, W. M., B.Sc. Lond., M.A., *Tutor (Econ.)*.  
 Pym, Rev. Canon T. W., D.S.O., M.A., *Chaplain*.

Other Tutors and Lecturers :

Priestley, J. G., D.M., Ch. Ch., *Lectr. (Physiology)*.  
 Bryson, J. N., M.A., *Tutor (Engl. Lit.)*.  
 Bell, R. P., B.A., *Bedford Lectr. (Nat. Sci.)*.  
 Whitehead, J. H. C., B.A., *Tutor (Maths.)*.  
 Hughes, O. L., B.A., *Demr. (Nat. Sci.)*.

BRASENOSE COLLEGE. Founded 1509. Principal—C. H. Sampson, M.A.

Fellows :

Stocker, W. N., M.A., *Lectr.*  
 Butler, A. J., M.A., D.Litt.  
 Stallybrass, W. T. S., O.B.E., D.C.L., *Vice-Principal, Tutor*.  
 Southwell, R. V., M.A., F.R.S., *Prof. (Engineering Science)*.  
 Holroyd, M., M.A., *Senior Tutor*.  
 Anderson, J. G. C., M.A., *Prof. of Anc. Hist.*  
 Griffith, I. O., M.A., *Tutor*.  
 Taylor, T. W. J., M.A., *Tutor*.

Jeffery, R. W., M.A., *Tutor, Librarian*.  
 Platnauer, M., M.A., B.Litt., *Tutor*.  
 M'Kie, J. I., M.A., *Lectr.*  
 Spalding, K. J., M.A., *Research Fellow*.  
 Waldoock, C. H. M., B.C.L., M.A., *Lectr.*  
 Grant, A. D., M.A., *Bursar*.  
 Ker, A., M.A., *Lectr.*

Other Lecturers :

Brett-Smith, H. F. B., M.A. (*Engl. Lit.*)  
 Amery, G. D., M.A. (*Agric.*)  
 Bowen, I. I., B.A. (*Hist. and Econ.*)

CHRIST CHURCH. Founded 1546. Dean—Very Rev. H. J. White, D.D.

Canons :

Watson, Rev. E. W., D.D., *Regius Prof. of Eccl. Hist.*  
 Cooke, Rev. G. A., D.D., *Regius Prof. of Hebrew*.  
 Shaw, Rt. Rev. E. D., D.D., *Arch-deacon of Oxford*.  
 Goudge, Rev. H. L., D.D., *Regius Prof. of Divinity*.  
 Williams, Rev. N. P., D.D., *Lady Margaret Prof. of Divinity*.

Students (equivalent to Fellows) :

Payne-Smith, Rev. W. H., M.A.  
 Murray, G. G. A., M.A., D.Litt., *Regius Prof. of Greek*.  
 Dundas, R. H., M.A., *Tutor*.  
 Hutchinson, G. T., M.A., *Treasurer*.  
 Chaundy, T. W., M.A., *Tutor*.  
 Feeling, K. G., M.A., D.Litt., *Tutor*.  
 Masterman, J. C., M.A., *Tutor*.

Barrington-Ward, J. G., M.A., *Tutor; Librarian*.  
 Thomson, A., M.A., *Prof. of Anatomy*.  
 Russell, A. S., M.A., *Tutor, Reader in Chem.*  
 Heaton, T. B., D.M., *Tutor, Reader in Anat.*  
 Lindemann, F. A., M.A., F.R.S., *Prof. of Exp. Philos.*  
 Taylor, F. A., M.A., *Tutor*.  
 Harrod, H. R. F., M.A., *Tutor*.  
 Ryle, G., M.A., *Censor and Tutor*.  
 Morison, C. G. T., M.A., *Tutor*.  
 Myres, J. N. L., M.A.  
 Buzzard, Sir E. F., D.M., *Regius Prof. of Medicine*.  
 Percival, Lt.-Col. Sir H. F. P., M.A., *Steward*.  
 Grant-Bailey, S. N., M.A., *Tutor*.  
 Longden, R. P., M.A., *Censor and Tutor*.

Mortimer, Rev. R. C., M.A., *Tutor*.  
 Foster, M. B., M.A.  
 Gordon-Walker, P. C., M.A., B.Litt.,  
*Tutor*.  
 Collie, C. H., B.Sc., M.A.  
 Einstein, A., Hon. D.Sc.

Page, D. L., B.A., *Tutor*.  
 Hurst, C., B.A.

Lecturers :  
 Ayer, A. J., B.A.  
 Pakenham, Hon. F. A., B.A.

CORPUS CHRISTI COLLEGE. Founded 1517. President—P. S. Allen, M.A., D.Litt.

Fellows :  
 Schiller, F. C. S., M.A., D.Sc.  
 Phelps, W., M.A., *Tutor*.  
 Clark, A. C., M.A., *Prof. of Latin*.  
 Pidduck, F. B., M.A., D.Sc., *Tutor*,  
*Reader, Appl. Maths.*  
 Hardie, W. F. R., M.A., *Vice-President and Tutor*.  
 Prichard, H. A., M.A., *Prof. of Moral Philos.*

Thornton-Duesbery, Rev. J. P., M.A.,  
*Chaplain, Divinity Lecturer,*  
*Librarian.*  
 Geary, F. C., M.A., *Tutor, Dean*.  
 Henderson, C. G., M.A., *Tutor*.  
 Veale, D., C.B.E., M.A.  
 Blakeway, A. A., M.A., *Tutor*.

Other Lecturers :  
 Hammick, D. L., M.A. (*Nat. Sc.*)  
 Tylor, T. H., B.C.L., M.A. (*Law*).

EXETER COLLEGE. Founded 1314. LL.D., F.B.A.

Fellows :  
 Atkinson, C. T., M.A. *Lectr. (Mod. Hist.)*.  
 Cheshire, G. C., D.C.L., M.A., *Lectr. (Law)*.  
 Barber, E. A., M.A., *Senior Tutor, Dean, Lectr. (Classics)*.  
 Coghill, N. H. K. A., M.A., *Tutor, Lectr. (Engl.), Librarian*.  
 Baldson, J. P. V. D., M.A., *Sub-Rector, Tutor*.  
 Wolfenden, J. H., M.A., *Tutor, Lectr. (Phys. Sci.)*.  
 Bezzant, Rev. J. S., M.A. (*Chaplain and Lectr. in Theol.*).

Staines Research Fellow :  
 Eccles, J. C., M.A., D.Phil.

Rector—R. R. Marett, M.A., D.Sc.,

Professorial Fellows :  
 Dawkins, R. MacG., M.A., *Prof. of Byzantine and Mod. Greek*.  
 Soddy, F., M.A., F.R.S., *Prof. of Chem.*  
 Entwistle, W. J., M.A., *Prof. of Spanish*.

Non-Stipendiary Fellow :  
 Balfour, H., M.A.

Other Tutors and Lecturers :  
 Rabinovitch, H. I., B.A. (*Hebrew*).  
 Stampa, L., M.A. Mag. (*Mod. Hist.*).  
 Hunt, H. J., M.A., D.Phil. (*French*).  
 Struth, M. le V., M.A. (*French*).  
 Kneale, W. C., M.A. (*Philos.*).  
 Potter, H. S. A., B.A. (*Maths.*).

Catechist :  
 Underhill, Very Rev. F. L., M.A.

HERTFORD COLLEGE. Founded 1874.

Fellows :  
 Cecil, Rt. Hon. Lord Hugh, M.A.,  
 Hon. D.C.L., M.P.  
 Haselfoot, C. E., M.A.  
 Murphy, N. R., M.A., *Sr. Tutor, Lectr. (Philos.)*.  
 Denniston, J. D., M.A., *Tutor, Lectr. (Classics), Librarian*.  
 Boase, T. S. R., M.A., *Tutor, Lectr. (Mod. Hist.)*.  
 Hignett, C., M.A., *Lectr. (Anc. Hist.)*.

Principal—C. R. M. F. Cruttwell, M.A.  
 Fifoot, C. H. S., M.A., *Lectr. (Jurispr.)*.  
 Ferrar, W. L., M.A., *Lectr. (Maths.)*.  
 Meade, J. E., B.A., *Lectr. (Econ.)*.  
 Markham, F. M. H., B.A., *Lectr. (Mod. Hist.)*.  
 Mason, K., M.A., *Prof. of Geog.*  
 Thornhill, Rev. A. E. C., M.A., *Chaplain*.

Other Lecturer :  
 Brett-Smith, H. F. B., M.A., *Reader in Engl. Lit.*

JESUS COLLEGE. Founded 1571. Principal—A. E. W. Hazel, C.B.E., M.A., B.C.L., LL.D., K.C.

Fellows :

Poulton, Prof. E.B., M.A., D.Sc., F.R.S.  
 Chapman, D. L., M.A., F.R.S., *Vice-Principal, Tutor (Nat. Sci.)*.  
 Edwards, J. G., M.A., *Acting Senior Tutor (Mod. Hist.)*  
 Fraser, Prof. J., M.A.  
 Hodgkinson, J., M.A., *Tutor (Maths.), Dean*  
 George, H. J., M.A., *Tutor (Nat. Sci.), Junior Bursar*.  
 Seymour, P. A., M.A., *Tutor (Anc. Hist.), Senior Bursar*.

LINCOLN COLLEGE. Founded 1427.

Fellows :

Sidgwick, N. V., M.A., F.R.S., *Lectr (Nat. Sc.)*.  
 Marchant, E. C., M.A., *Sub-Rector, Sr. Tutor (Classics)*.  
 Carlyle, E. I., M.A., *Lectr. (Mod. Hist.)*.  
 Dreyer, Prof. G., M.A.  
 Hanbury, H. G., B.C.L., M.A., *Lectr. (Jurispr.)*.

MAGDALEN COLLEGE. Founded 1458. President—George S. Gordon, M.A.

Fellows :

Benecke, P. V. M., M.A.  
 Miers, Sir Henry A., M.A., D.Sc., F.R.S.  
 Poole, R. L., M.A., D.Litt., F.B.A.  
 Thompson, Rev. J. M., M.A., *Tutor (Mod. Hist.)*.  
 Bowman, H. L., M.A., D.Sc., *Prof. of Mineralogy*.  
 Smith, J. A., M.A., *Prof. of Philos.*  
 Sherrington, Sir Charles S., O.M., G.B.E., M.A., Hon. D.Sc., F.R.S., *Prof. of Physiology*.  
 Manley, J. J., M.A., D.Sc.  
 Salter, Rev. H. E., M.A.  
 Hope, E., M.A., *Tutor (Nat. Sc.)*,  
 Driver, G. R., M.A., *Vice-President and Librarian, Reader in Semitic Philology*.  
 Lee, S. G., M.A., *Tutor (Mod. Hist.)*  
 Segar, R., M.A., *Tutor (Law)*.  
 Dixon, A. L., M.A., F.R.S., *Prof. of Pure Maths*.  
 MacKeith, M. H., D.M., *Tutor (Nat. Sc.), Dean of Med. School*.

Cross, Rev. L. B., M.A., *Chaplain and Lectr. (Theol.)*.

Fordyce, C. J., M.A., *Tutor (Classics), and Librarian*.

Jones, H. Stuart, M.A., D.Litt.

Other Lecturers :

Brett-Smith, H. F. B., M.A. (*Engl Lit*).  
 Hunt, H. J., M.A., D.Phil. (*Mod. Langs.*).  
 Knox, T. M., M.A., *Lectr. (Philos.) and Jr. Dean*.  
 Goodwin, A., B.A., *Lectr. (Mod. Hist.) and Jr. Dean*.

Rector—J. A. R. Munro, M.A.

Beazley, Prof. J. D., M.A.

Cox, H. H., M.A., *Lectr. (Philos.)*.

Allen, Rev. G. F., M.A., *Lectr. (Theol.), Jr. Tutor*.

Other Lecturers :

Jeffery, R. W., M.A., B.N.C. (*Mod. Hist.*).  
 Morison, C. G. T., M.A. Ball. (*Agric. Chem.*).  
 Vinaver, E., M.A., B.Litt. (*French*).

Snow, G. R. S., B.Sc., M.A.

Weldon, T. D., M.A., *Tutor (Philosophy)*.

Onions, C. T., M.A., Hon. D.Litt., *Reader in English Philol.*

Lewis, C. S., M.A., *Tutor (English)*.

Parker, H. M. D., M.A., *Tutor (Anc. Hist.), Sr. Dean of Arts*.

Foligno, C. C., M.A., *Prof. of Italian*

Tansley, A. G., M.A., F.R.S., *Prof. of Bot.*

McFarlane, K. B., M.A., *Tutor (Mod. Hist.)*.

Fox, Rev. A., M.A., *Dean of Divinity*.

Johnson, P., M.A., *Lectr. (Physics), Jr. Dean of Arts*.

Wolfenden, J. F., M.A., *Tutor (Philos.)*.

Robinson, R., M.A., D.Sc., F.R.S., *Prof. of Chem.*

Forster, A. J., M.A., *Estates Bursar*.

Chapman, R. W., M.A., Hon. D.Litt.

Denholm-Young, N., M.A., B.Litt.

Opie, R., M.A., Ph.D., *Tutor (Econ.)*.  
 Young, J. Z., B.A., *Lectr. (Zool.)*.  
 Moullin, E. B., M.A.  
 Sutton, L. E., M.A., D.Phil  
 Mackenzie, W. J. N., B.A. (*Classics*).

MERTON COLLEGE. Founded 1264.

Fellows :

Miles, Sir John C., M.A., B.C.L.  
 Goodrich, Prof. E. S., M.A., D.Sc.  
 Garrod, H. W., M.A.  
 Gill, E. W. B., M.A., B.Sc.  
 Mure, G. R. G., M.A., *Tutor*.  
 Lambert, B., M.A., D.Sc., *Tutor*.  
 Wyld, Prof. H. C. K., B.Litt., M.A.  
 Deane-Jones, I., M.A., *Sr. Tutor*.  
 Smith, Prof. D. Nichol, M.A., *Sub-Warden*.  
 Thompson, R. C., M.A., D.Litt.  
 de Beer, G. R., M.A., D.Sc.

NEW COLLEGE. Founded 1379.  
 M.A., Hon. D.C.L.

Fellows :

Hayes, E. H., M.A.  
 Margoliouth, Rev. D. S., M.A., D.Litt.,  
*Laundian Prof. of Arabic*.  
 Matheson, P. E., M.A.  
 Joseph, H. W. B., M.A.  
 Townsend, J. S. E., M.A., F.R.S.,  
*Wykeham Prof. of Physics*.  
 Haldane, J. S., M.A. (*Supernumerary*).  
 Henderson, H. L., M.A., *Tutor, Dean,*  
*Dean of Arts (Classics)*.  
 Walden, A. F., M.A., *Tutor (Chem.)*.  
 Allen, Sir Hugh P., D.Mus., M.A.,  
*Heather Prof. of Music*.  
 Legg, L. G. Wickham, M.A., *Tutor*  
*(Hist.)*.  
 Myres, J. L., M.A., *Wykeham Prof. of*  
*Anc. Hist., Librarian*.  
 Ogg, D., M.A., *Tutor*.  
 Smith, A. H., M.A., *Tutor, Precentor*  
*(Phil.)*.  
 Joachim, H. H., M.A., *Wykeham Prof.*  
*of Logic*.  
 Radcliffe, G. R. Y., M.A., *Sr. Bursar*.  
 Casson, S., M.A., *Reader in Class.*  
*Archæol., Lectr. (Sculp.)*.  
 Poole, E. G. C., M.A., D.Phil., *Lectr.*  
*(Maths.)*.

Lecturers :

Abercrombie, N. J., B.A. (*Mod.*  
*Langs.*).  
 Balfour, M. L. G., B.A. (*Politics*).

Warden—T. Bowman, M.A.

Newbould, H. O., M.A., *Tutor*  
 Lawson, F. H., M.A., *Tutor*.  
 Levens, R. G. C., M.A., *Tutor*.  
 Harrison, A. R. W., M.A., *Tutor*  
 Blunden, E. C., M.A., *Tutor*.

Lecturers :

Carter, C. W., B.M., M.A. Qu.  
*(Physiol.)*.  
 Williams, Rev. C. S. C., M.A. (*Div-*  
*inity*).  
 Maidment, K. J., B.A. (*Classics*).  
 Roberts, M., B.A. Worc. (*Mod.*  
*Hist.*).

Warden—Rt. Hon. H. A. L. Fisher,

Lightfoot, Rev. R. H., M.A., *Speaker's*  
*Lectr. in Biblical Studies, Tutor,*  
*Dean of Div., Chaplain (Theol.)*.  
 Creed, R. S., D.M., *Tutor (Physiol.)*.  
 Cox, C. W. M., M.A., *Tutor (Anc.*  
*Hist.)*.  
 McCallum, S. P., M.A., D.Phil., *Lectr.,*  
*Jr. Bursar (Physics)*.  
 Yorke, E. C., M.A., *Tutor, Sub-*  
*Warden (Classics)*.  
 Jenkins, H. J. S., B.C.L., M.A., *Tutor,*  
*Tuition Sec. (Jurispr.)*.  
 Brown, E. H. Phelps, M.A., *Lectr.*  
*(Econ.)*.  
 Crossman, R. H. S., B.A., *Lectr.*  
*(Philos. and Anc. Hist.)*.  
 Zimmern, A. E., M.A., *Montague Bur-*  
*ton Prof. Internat. Relations*  
*(Supernumerary)*.  
 Titchmarsh, E. C., M.A., *Savilian*  
*Prof. of Geom.*  
 Plaskett, H. H., M.A., *Savilian Prof.*  
*of Astron.*

Other Lecturers :

Woodward, E. Ll, M.A., *Tutor (Hist.)*.  
 House, H. W., M.A. (*Mod. Langs.*).  
 Pares, R., M.A. (*Hist.*).  
 Arkell, W. J., M.A., D.Phil., B.Sc.  
*(Geol.)*.  
 Berlin, I., B.A. (*Philos.*).

**ORIEL COLLEGE.** Founded 1326. Provost—W. D. Ross, O.B.E., M.A., Hon. LL.D., F.B.A.

**Fellows :**

Tod, M. N., O.B.E., M.A., F.B.A., *Sr. Tutor (Anc. Hist.)*.  
 Hammick, D. Ll., M.A., *Tutor (Chem.)*.  
 Simpson, P., M.A., *Lectr. (Eng. Lit.)*.  
 Cohn, E. S., M.A., *Lectr. (Mod. Hist.)*.  
 Franklin, K. J., D.M., M.A., *Tutor (Med.)*, Librarian.  
 Simpson, Rev. D. C., D.D., *Prof. of Interpretation of Holy Scripture*.  
 Wand, Rev. J. W. C., M.A., *Dean and Tutor (Theol.)*.  
 Hargreaves, E. L., M.A., *Tutor (Econ.)*.  
 Emden, C. S., M.A., *Treasurer*.

**PEMBROKE COLLEGE** Founded 1624.

**Fellows :**

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 Drake, H. L., M.A., *Vicegerent, Tutor*.  
 Collingwood, R. G., M.A., *Tutor, Librarian*.  
 Burrowes, Rev. A. B., M.A., *Lectr. (Divinity and Classics)*, *Dean*.  
 Salt, L. E., M.A., *Bursar*.

**THE QUEEN'S COLLEGE.** Founded 1340. Provost—Rev. E. M. Walker, M.A.

**Fellows :**

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 Allen, T. W., M.A., F.B.A., *Librarian*.  
 \*Thompson, C. H., M.A., *Sr. Tutor (Maths.)*.  
 \*Hodgkin, R. H., M.A., *Tutor (Mod. Hist.)*.  
 \*Streeter, Rev. B. H., M.A., F.B.A., *(Theol.)*.  
 Hunt, A. S., M.A., D.Litt., F.B.A., *Prof. of Papyrology*.  
 \*Chattaway, F. D., M.A., F.R.S., *Tutor (Chem.)*.  
 \*Elton, G., M.A., *Tutor (Mod. Hist.)*.  
 \*House, H. W., M.A., *Tutor (Mod. Langs.)*.  
 Love, A. E. H., M.A., D.Sc., F.R.S., *Prof. of Nat. Philos.*.  
 Fiedler, H. G., M.A., *Prof. of German*.

Powicke, F. M., M.A., LL.D., D.Litt., F.B.A., *Reg. Prof. of Mod. Hist.*.  
 Grensted, Rev. L. W., D.D., M.A., *Prof. of Philos. of Christian Religion*.  
 MacLagan, W. G., M.A., Ph.D. Edin., *Lectr. (Philos.)*.  
 Burton, R. W. B., B.A. (*Classics*).  
 Gough, J. W., M.A. (*Mod. Hist.*).

**Other Lecturers :**

James, W. O., D.Phil. (*Bot.*).  
 Stallybrass, W. T. S., O.B.E., D.C.L. (*Law*).  
 Tucker, B. W., M.A. (*Zool.*).  
 Vinaver, E., B.Litt., M.A. (*French*).  
 Bryson, J. N., M.A. (*Eng. Lang.*).

**Master**—Rev. F. Homes Dudden, D.D.  
 McCallum, R. B., M.A., *Lectr. (Mod. Hist.)*.  
 Tolkien, Prof. J. R. R., M.A.

**Other Lecturers :**

Brett-Smith, H. F. B., M.A. (*English*).  
 Berthon, H. E., M.A. (*French*).  
 George, H. J., M.A. (*Nat. Sc.*).

McElroy, R. McN., M.A., *Prof. of American Hist.*

Lobel, E., M.A.

\*Jones, J. Walter, M.A., *Tutor (Jurisprudence)*.

\*Carter, C. W., M.A., B.M. (*Physiol.*).

\*Franks, O. S., M.A. (*Philos.*), *Dean of Degrees*.

\*Gore, C. H., M.A., *Domestic Bursar*.

\*Fraser, L. M., M.A. (*Econ.*).

\*Wright, T. E., M.A. (*Classics*).

\*Cripps, Hon. A. H. S., M.A., *Estates Bursar*.

\*Ratchiff, Rev. E. C., M.A. (*Theol. and Classics*), *Chaplain*.

\*Colman, D. S., M.A. (*Anc. Hist. and Classics*), *Dean*.

**Laming Travelling Fellows :**

Grey, P. F.

Holliday, L. G.

\* Prælector.

Knight, R. C., B.A.  
 Scott-Fox, R. D. J.  
 Burrows, B. A. B.  
 Creswell, M. J.  
 McLachlan, D. H.

Reilly, D'. A. P.  
 Stephens, D.

Other Lecturers :

Brett-Smith, H. F. B., M.A. (*English*).  
 Wilkins, W. H., M.A. (*Botany*).

ST. JOHN'S COLLEGE. Founded 1555. President—F. W. Hall, M.A., D.Litt.

Fellows :

Powell, J. U., M.A., Tutor, Lectr.  
 (*Classics*).  
 Douglas, C. G., B.Sc., D.M., F.R.S.,  
 Tutor, Lectr. (*Nat. Sc.*).  
 Poole, A. L., M.A., Sr. Tutor, Lectr.  
 (*Mod. Hist.*).  
 Last, H. M., M.A., Tutor, Lectr.  
 (*Classics and Anc. Hist.*).  
 Troup, Prof. R. S., M.A., D.Sc.,  
 F.R.S.  
 Costin, W. C., M.A., Tutor, Lectr.  
 (*Mod. Hist.*).  
 Hart-Synnot, R. V. O., M.A.,  
 Bursar.  
 Mabbott, J. D., B.Litt., M.A., Tutor,  
 Lectr. (*Philos.*).

Watson, Prof. J. A. S., M.A. (*Rural Econ.*).

Slade, E., M.A., Tutor and Lectr. in  
*Jurisprudence*, Sr. Dean of Arts.

Thompson, H. W., M.A., B.Sc., Lectr.  
 (*Chem.*), Jr. Dean of Arts.

Greenslade, Rev. S. L., M.A., Lectr.  
 (*Theol.*), Reader, Sr. Librarian.

Bone, G. D., M.A. Lectr. (*English*),  
 Jr. Librarian.

Hight, G. A., B.A., Lectr. (*Classics*).

Other Lecturers :

Newbould, H. O., M.A. (*Maths.*).  
 Dowdell, E. G., M.A., D.Phil. (*Econ.*).  
 Moore, W. G., M.A. (*Mod. Langs.*).

TRINITY COLLEGE. Founded 1554-1555. President—Rev. H. E. D. Blakiston D.D.

Fellows :

Patterson, Rev. M. W., M.A., Tutor,  
 Lectr. (*Mod. Hist.*), Vice-President.  
 Weaver, J. R. H., M.A., Tutor, Lectr.  
 (*Mod. Hist.*), Librarian.  
 Higham, T. F., M.A., Tutor, Lectr.  
 (*Classics*).  
 Landon, P. A., M.A., Lectr. (*Jurispr.*).  
 Liddell, E. G. T., D.M., M.A., Research  
 Fellow in Physiology.

Hinshelwood, C. N., M.A., F.R.S.,  
 Lectr. (*Chem.*).

Kirk, Rev. K. E., D.D., Lectr. (*Theol.*).

Price, H. H., B.Sc., M.A., Lectr.  
 (*Philos.*).

Peters, R. A., M.A., Prof. of Bio-  
 Chemistry.

Ewert, A., M.A., Prof. (*Romance Langs.*).

Hall, R. L., M.A., Lectr. (*Econ.*).

Syme, R., M.A., Lectr. (*Anc. Hist.*).

UNIVERSITY COLLEGE. Founded 1249. Master—Sir Michael E. Sadler, K.C.S.I., C.B., M.A.

Fellows :

\*Poynton, A. B., M.A., D.Litt. (*Greek*),  
 Estates Bursar.  
 \*Farquharson, A. S. L., M.A., Senior  
 Tutor (*Logic*).  
 \*Carritt, E. F., M.A. (*Philos.*),  
 Librarian.  
 Sollas, Prof. W. J., M.A., F.R.S., Prof.  
 (*Geology*).

\*Walker, E. W. A., D.M., D.Sc.,  
 Tutor (*Nat. Philos.*).

\*Stevenson, G. H., M.A. (*Anc. Hist.*),  
 Secretary.

Leys, K. K. M., M.A., Tutor (*Mod. Hist.*).

Goodhart, Prof. A. L., D.C.L., LL.D.,  
 Prof. of *Jurispr.*

\*Keir, D. L., M.A., Dean (*Mod. Hist.*).

\*Bowen, E. J., M.A., *Domestic Bursar* (Chem.).  
 Cole, G. D. H., M.A. (Econ.).  
 Gardner, A. D., D.M., M.A. (Physiol.).  
 Maud, J. P. R., M.A. (Polit. Sci.).  
 Campbell, A. H., B.C.L., M.A. (Law).

Radcliffe Travelling Fellows :

Brown, W. H., M.A., B.M.  
 Irvine, K. N., B.M. Magd.

Other Lecturers and Asst. Lectrs. :  
 Thompson, C. H., M.A. Queen's (Maths.).  
 Morison, C. G. T., M.A. Ch. Ch. (Rural Ec.).  
 Douglas, J. A., M.A., D.Sc. (Geology).  
 Lewis, C. S., M.A. Magd. (Engl. Lit.).  
 Chalk, L., M.A., D.Phil. (Forestry).  
 Berthon, H. E., M.A. Wadh. (French).  
 Wilkins, W. H., M.A. Keble (Bot.).

\* Prælector.

WADHAM COLLEGE. Founded 1610. Warden—J. F. Stenning, C.B., C.B.E., M.A.

Fellows :

Wade-Gery, H. T., M.C., M.A., *Senior Tutor* (Classics).  
 Lindemann, F. A., M.A., F.R.S., *Prof. of Exp. Philos.*  
 Lennard, R. V., M.A., *Tutor* (Hist.), *Reader* (Econ. Hist.).  
 Bowra, C. M., M.A., *Tutor* (Classics) and *Dean*.  
 Keeley, T. C., M.A., *Lectr.* (Physics).  
 Hart, W. O., B.C.L., M.A., *Lectr.* (Law).

Bretherton, R. F., M.A., *Lectr.* (Econ. and Mod. Hist.), *Librarian*.  
 Milne, E. A., M.B.E., M.A., F.R.S., *Rouse Ball Prof. of Maths.*  
 Gallie, I. B.A., *Lectr.* (Philos.).  
 House, Rev. A. H., B.A., *Lectr.* (English).

Other Lecturer :

Berthon, H. E., M.V.O., M.A. (French).

WORCESTER COLLEGE. Founded 1714. Provost—Rev. F. J. Lys, M.A.

Fellows :

Roberts, P. E., M.A., *Vice-Provost, Tutor, Lectr.* (Mod. Hist.).  
 Wilkinson, C. H., M.A., *Lectr.* (Engl. Lit.), *Librarian*.  
 Pickard-Cambridge, W. A., M.A., *Tutor, Lectr.* (Classics).  
 Somerset, H. V. F., M.A., *Asst. Tutor, Lectr.* (Mod. Hist.).

Bryan-Brown, A. N., M.A., *Asst. Tutor, Lectr.* (Classics).  
 Braunscholtz, Prof. G. E. K., M.A.  
 Parker, J. L., M.A., *Lectr.* (Law).  
 Stead, Rev. W. F., M.A., *Chaplain*.

Laycock Student of Egyptology :

Glanville, S. R. K., M.A.

ST. EDMUND HALL. Founded c. 1238. Principal—A. B. Emnden, M.A.

Tutors :

Brewis, Rev. J. S., M.A. (Mod. Hist.), *Vice-Principal*.  
 Brewis, G. R., M.A., *Senior Tutor*.  
 Fletcher, Rev. R. F. W., M.A., *Tutor* (English).  
 Hunt, H. J., M.A., D.Phil., *Tutor* (Mod. Langs.).

Farrer, Rev. A. M., M.A., *Chaplain and Tutor* (Theol. and Philos.).

Lecturers :

Thompson, C. H., M.A. (Maths.).  
 Chattaway, F. D., M.A., F.R.S. (Chem.).  
 Higham, T. F., M.A. (Classics).  
 Fraser, L. M., M.A. (Econ.).

KEBLE COLLEGE. Founded 1870. Warden—Rev. B. J. Kidd, D.D.

Fellows :

Reade, W. H. V., M.A., *Sub-Warden*.  
 Milman, Lt.-Col. O. R. E., R.A., D.S.O., M.A., *Bursar*.

Owen, A. S., M.A.  
 Jolliffe, J. E. A., M.A.  
 Rice-Oxley, L., M.A.  
 Parkes, G. D., B.Sc., D.Phil., M.A.

Hugh-Jones, E. M., M.A.

Carpenter, Rev. H. J., M.A.

Meiggs, R., M.A.

Lectr. :

Davidge, C. V., B.C.L., M.A.

Chaplain :

Blockley, Rev. T. T., M.A.

ST. CATHERINE'S SOCIETY (*Non-Coll. Students*). Censor—Rev. V. J. K. Brook, M.A. Cath. Address—74 High Street.

Tutors and Lecturers :

Thompson, C. H., M.A. Qu. (*Maths.*).

Kendrew, W. G., M.A. Cath. (*Classics*)  
*Dean.*

Brook, Rev. V. J. K., M.A. Cath.  
(*Theol.*)

Boyd, J., M.A., B Litt. Cath. (*German*).

Garabedian, D., M.A. Cath. (*French*).

George, H. J., M.A. Jes. (*Chem.*).

Davies, Rev. R. T., M.A. Cath., *Dean of Degrees (Mod Hist.)*.

Horwood, F. C., M.A. Cath. (*English*).

Fisher, R. B., B.A., B.Sc. Joh.  
(*Physiol.*).

Hugh-Jones, E. M., M.A. Keble  
(*Econ.*).

Tylor, T. H., M.A., B.C.L. Ball. (*Law*).

Whale, Rev J. S., M.A. Cath. (*Mod. Hist.*).

CAMPION HALL. Master—Rev. M. C. D'Arcy, M.A.

A private hall for members of the Society of Jesus.

ST. BENET'S HALL. Master—Rev. P. J. McCann, M.A.

A private hall for members of the English Benedictine Abbey of Ampleforth, Yorkshire.

ST. PETER'S HALL. Master—Rev. C. M. Chavasse, M.A.

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\*Jamison, Evelyn M., M.A. (*History*),  
*Vice-Principal*.

\*Spens, Janet, M.A. (*English*).

\*Deneke, Helena C., M.A. (*German*).

\*Skipworth, Margaret G., M.A.  
(*French*).

\*Coate, Mary, M.A. (*History*).

\*Everett, Dorothy, M.A. (*English*).

\*Anson, Christine, M.A., *Hall Secretary and Librarian*.

\*Harbottle, Dorothy, *Bursar*.

Dale, A. Marjorie, M.A. (*Classics*).

Lecturers :

Wrinch, Mrs. Dorothy M., M.A., D.Sc.  
(*Maths.*).

Orr Ewing, Jean, M.A., B.M.  
(*Physiol.*).

Clarke, D. Rhoda, B.A. (*French Philol.*).

\* Fellow.

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879. Principal—Helen Darbishire, M.A. Vice-Principal—\*Mildred K. Pope, M.A.

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\*Pope, Mildred K., M.A. (*Mod. Langs.*).

\*Lorimer, Hilda L., M.A. (*Classics*).

\*Clarke, Maude V., M.A. (*Mod. Hist.*).

\*Farnell, Vera, M.A. (*Mod. Langs.*),  
*Dean*.

\*Sutherland, L. Stuart, M.A. (*Econ. Hist. and Politics*).

\* Official Fellow



Hilton, Irene A. F., M.Sc. Liv. (*Nat. Sc.*).

\*Lascelles, Mary M., M.A., B.Litt. (*Eng. Lang. and Lit.*).

Asst. Tutor :

Munro, M. Isobel, B.A. (*Anc. Hist.*).

Hon. Lecturer :

Bruce, Hon. Alice M., M.A. (*Med. French Hist.*).

Sarah Smithson Lecturer :

Starkie, Enid M., M.A. (*French Lit.*).

Research Fellows :

Sharp, D. E., D.Phil. (Lady Carlisle).

Hurnard, Naomi D., B.A. (Mary Somerville).

\*Beauchamp, Agneta, O.B.E., *Secretary and Treasurer.*

\*Stonedale, M. Beatrice, *Domestic Bursar.*

Librarian

Evans, Evangeline, M.A., B.Litt.

\* Official Fellow.

ST. HUGH'S COLLEGE, founded as St. Hugh's Hall in 1886, was incorporated under Royal Charter in 1926. Principal—Miss B. E. Gwyer, M.A.

Tutors :

\*Francis, Elizabeth A., M.A. (*French*).

\*Seaton, Mary E., M.A. (*Engl. Lit.*).

\*Procter, Evelyn E. S., M.A. (*Hist.*),  
*Librarian.*

\*Glover, Mary R., M.A. (*Philos. and Classics*).

Clarke, Mrs. D. E. Martin, M.A. (*Engl. Lit.*).

\*Leishman, M. A., M.A., B.Sc. (*Sci.*),  
*Asst. Tutor.*

Headlam-Morley, Agnes, B.A., B.Litt.  
*Asst. Tutor (Politics and Econ.)*.

Lecturers :

Wrinch, Mrs. Dorothy M., M.A., D.Sc. (*Maths.*).

Bickley, Olga D., B.A., D. in Litt,  
*Genoa (Italian).*

Research Fellows :

Ady, Cecilia M., M.A.

Perham, Margery F., M.A.

Librarian :

Hamilton-Thompson, Beatrice M.,  
M.A.

\* Fellow.

ST. HILDA'S COLLEGE, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll. Principal—Julia de L. Mann, M.A.

Tutors :

Sandys, Agnes M., M.A., F.R.Hist.S. (*Hist.*), *Vice-Principal.*

Keith, Christina, M.A. (*Classics*).

Rooke, Eleanor W., M.A. (*Engl. Lit.*).

Chesney, Kathleen, M.A., D.Phil. (*French*).

Wilson, Evelyn G., M.A. (*Econ.*).

Cooper, Sybil, M.A., Ph.D. Camb.  
*Lectr. (Science) and Research Fellow.*

Lecturers :

Wrinch, Mrs. Dorothy M., M.A., D.Sc. (*Maths.*).

Toynbee, Margaret R., M.A. (*Hist.*).

Whitelock, Dorothy, M.A. (*Engl. Lang.*).

Librarian :

Major, Kathleen, B.A., B.Litt.

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879. The Governing Body is the Univ. Delegacy of Home-Students. Principal—Miss Grace E. Hadow, M.A., 1 Jowett Walk, Oxford.

Tutors :

Butler, Christina V., M.A. (*Economics*).

Butler, Ruth F., M.A. (*Mod. Hist.*),  
*Vice-Principal, Sr. Tutor.*

Hugon, Marianne C. G., M.A. (*French*).

Lee, Margaret L., M.A. (*English*).

Leys, Mary D. R., M.A. (*Mod. Hist.*).

MacMunn, Norah E., M.A., (*Geog.*).

Morrison, C. L., M.A. ( <i>Eng.</i> ).	Williams, Ivy, D.C.L. ( <i>Jurispr.</i> ).
Orr-Ewing, J., B.M., M.A. ( <i>Nat. Sc.</i> ).	Lecturers :
Poole, Dorothy J. L., M.A. ( <i>Classics</i> ).	Rhys, O., M.A. ( <i>Old French</i> ).
Rowe, B. J. H., B.Litt., M.A. ( <i>Mod. Hist.</i> ).	Wrinch, Mrs. D. M., M.A., D.Sc. ( <i>Maths.</i> ).

The students reside in their own homes or with relatives or in private families in Oxford, or, occasionally, in lodgings. They may reside in one of the Hostels maintained by Religious Orders: S. Frideswide's, Cherwell Edge (Roman Catholic), and Springfield S. Mary (Anglican).

## GENERAL INFORMATION

**CONSTITUTION.** The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It is the principal legislative body in the Univ. and, subject to the postponing power of Convocation explained below, can adopt, reject, or amend legislative proposals submitted by the Hebdomadal Council. *Convocation*, a larger body consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine, who have their names on the Univ. books, has the power of postponing, but not of rejecting or amending, Statutes or Decrees which have been passed by the vote of less than two-thirds of the members of Congregation present and voting. It also confers honorary degrees and degrees granted by Decree or Diploma. It sanctions petitions to Parliament, and authorises the affixing of the Univ. seal when necessary. The *Hebdomadal Council* consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiry of his term of office), the Proctors, and 18 members elected by Congregation. It takes the initiative in all legislation of the Univ. and forms the central administrative body. Other important bodies, endowed with considerable powers and responsibilities, are the *General Board of the Faculties* and the *Curators of the University Chest*.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They manage their own property, and elect their own officers; and the Proctors have no power within their walls. Their Statutes, however, render them subject to certain Univ. Statutes which deal, among other things, with reservation of a proportion of Fellowships for Univ. teachers and officers, the assignment of Fellowships to University Professorships, the admission of undergraduates, contributions for Univ. purposes, the presentation and audit of accounts, and the special examination of catering accounts. The relation between the Univ. and the Colleges is intimate. The great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, Lecturers, and Demonstrators, partly by the more numerous body of College Tutors and Lectrs.

**FACULTIES.** Theol., Law, Med., Literæ Humaniores, Mod. Hist., Engl. Lang. and Lit., Med. and Mod. Langs., Oriental Langs., Phys. Sciences (including Maths.), Biol. Sciences, Social Studies. There are Boards of Studies for Music and Geography.

**ADMISSION.** See App. XXII.

PERMISSION TO ATTEND LECTURES given by Professors and University Readers, and University Lecturers in English Language and Literature, can be obtained by persons who are not members of the Univ. on payment of a fee of £3 a term at the office of the University Chest, Clarendon Building, Broad Street.

Lectures and classes in Mod. For. Langs. may be attended by external students on payment of fees varying from 15s. to 10s. for one hour a week. Application should be made to the Clerk to the Curators, Taylor Institution.

THE ADVISER OF OVERSEAS STUDENTS (H. S. Williamson, M.A., Indian Institute) will advise applicants from the Dominions and Colonies and foreign countries (other than Rhodes Scholars).

The Secretary to the Delegacy for Oriental Students (H. S. Williamson, M.A., Indian Institute) will advise Indian and other Oriental Students, who should apply for admission through him, but they are recommended to consult the Secy. of the Advisory Committee of their own Province in the first instance. See also p. 584.

INCORPORATION. Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.*, admitted to the status and degree held in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a Coll., Hall, or Society. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs., LL.B., LL.D., Ph.D. of Cambridge, and Litt.D. of Dublin. Graduates in Law of Cambridge shall when incorporated become B.C.L. or D.C.L., and Litt.D.'s of Dublin shall become D.Litt. of Oxford. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students has been abolished.

The number of resident undergraduate members of the Society of Home-Students (who keep statutable residence in houses approved by the Delegates for Lodgings) is limited at present to 220, exclusive of "Advanced students," and of an additional number not exceeding 5 in any term as may for exceptional reasons be given permission to reside. Preference is given to those applicants for admission to the Society whose homes are in Oxford.

The number of undergraduates in residence at the other Societies of Women

Students are also limited by Statute to 160 in the cases of Lady Margaret Hall and St. Hugh's Coll., and to 150 in the cases of Somerville Coll. and St. Hilda's Coll.

**ADMISSION TO PRIVILEGED STANDING:** "JUNIOR" AND "SENIOR" STUDENTS. See Appendix XXII.

**TERMS.** The Academical year, which begins in Oct. and ends in July, consists of 3 terms, Michaelmas, Hilary, and Trinity, beginning, respectively, on Oct. 1, Jan. 10, and the Wednesday after Easter Day, and ending Dec. 17, the day before Palm Sunday, and the Saturday after the first Tuesday in July. Residence within the walls of a College or Hall, or in licensed lodgings,\* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree. Full terms begin Oct. 9, 1932, Jan. 15 and April 23, 1933, and end Dec. 3, 1932, March 11 and June 17, 1933.

**DEGREES.** B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., M.Ch., D.M.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.A., B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

**ARTS.** Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll., Hall, and Society, however, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(a) *Responsions.* This is the Entrance Examination to the University. It must be passed, or some examn. accepted as equivalent to it, before matriculation. Names of candidates must be entered through an officer of the Society to which they intend to belong. See Appendix XXII.

(b) *The 1st Public Examn.* This consists of (1) Honour Classical Moderations, (2) Hon. Math. Modns, (3) Pass Modns., (4) Law Modns., (5) Prelim. N.Sc., (6) Prelim. Agr. and Geog., and (7) Prelim. Forestry. In order to pass the Examn. a candidate must pass in (1) and in one of the other subjects.

(c) *The 2nd Public Examn.* This consists of (a) a Pass School and (b) an Honour School. (a) contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in either *Agriculture* or *Forestry*. (b) includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Econ.; Geog.

Under certain conditions members of other Univs. and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M.

\* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs., may be admitted to the status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. App. XXII.). Analogous concessions are made in favour of Probationers for Forest Services in the British Empire who have obtained an approved degree at an approved Univ. and been admitted to the status of "Imperial Forest Service Student." Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions.

**ADVANCED STUDY AND RESEARCH.** The DEGREES B.LITT. AND B.Sc., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt.) not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the faculties of science and medicine, no probationary period is prescribed.

Of a similar nature but of a much higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 14).

To a student who, having carried out his research for a period of not less than 3 terms, has completed a course of study or research for the B.Litt. or B.Sc. and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D.LITT. AND D.Sc., instituted in 1900, are awarded for published work of sufficient merit.

**THEOLOGY.** The B.D. degree is open to candidates of over 26 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A.'s, to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other univs. First-class hon. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

**LAW.** The examn. for the B.C.L. degree is open either (1) to B.A.'s of the

Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

**MEDICINE.** The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 years, of which two or three are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or Society for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

**MUSIC.** The degree of B.Mus. is open to candidates who *either* (a) have been admitted to the degree of B.A. or (b) have (1) passed Responsions or an equivalent Examn., (2) pursued at the Univ. a course of musical study extending over at least 2 years. All candidates must also pass 2 examns. in Music (and compose a Musical Exercise) under conditions laid down by Statute. Residence for 6 terms is required, and the examn. may be completed in 6 terms as in the case of the Degrees of B.Litt. and B.Sc. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

**DIPLOMAS.** Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained:

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. *infra*), Director of Training, 15 Norham Gardens.

Economics and Political Science, Asst. Registrar.

Anthropology, 1 yr., The Secy., Committee for A., University Museum.

Forestry, 1 year, The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., The Professor of R.E., School of R.E.

Classical Archaeology, 1 yr., Secy to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Secy. of Faculties.

Comparative Philology, 1 yr., The Prof. of C.P., Worcester Coll.

Mediæval and Modern Art, Secy., Committee for the Fine Arts, Ashmolean Museum.

Open to Registered Medical Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K.: Ophthalmology, Dean of the Medical School, University Museum.

**Certificates:** Surveying or General and Regional Geog., 2 terms, Director, School of Geog.; Physical or Cultural Anthropology, 3 months, The Secy., Committee for A., University Museum; French or German; Training for Social Work, The Secy., Social Training Committee, Barnett House.

The following have been approved as Societies for higher study at Oxford, the members of which may have their names entered in the Univ. Register of

Diploma students although they are not members of the Univ. : *Ruskin College, Catholic Workers' College.*

COMMISSIONS IN H.M. FORCES, v. Appendix I. Candidates must have resided for 3 yrs. at the Univ., be over 21 and under 24, be of pure European descent and a British subject, be unmarried, and be in possession of a degree. (a) An Honours degree second class entitles the holder to have his name submitted to the War Office for a scholarship, on gaining a commission, of £50 for 5 yrs. (b) An antedate of seniority is given of 18 months on joining. Office of the Secy. to the Delegacy for Military Instruction—H.Q.O T.C., Manor Road.

AVIATION. Membership of the University Air Squadron is granted by selection to members of the University after interview by a Selection Committee. All candidates must obtain parental and College permission to join, and must be up to the full medical standard of the Royal Air Force. There are no fees for entrance, medical examination, or flying instruction, but a small annual subscription is imposed for Club purposes. Every member undertakes to obtain the Squadron Certificate of Proficiency by the end of his second year in the Squadron. This involves passing an examn. in four ground subjects, and it qualifies the holder to fly solo in term time. The Squadron is limited to 75 members, and in consequence there is great competition for membership. Students from overseas are advised to bring parental consent to join the Squadron with them before they sail for England.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the TRAINING OF TEACHERS (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see under Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent in practical work at a secondary school or, by special permission, abroad at an approved European Univ. Students are also accepted for a 4 yrs.' course (v. Appendix XIX.).

A vacation course of 4 weeks (fee £7 : 10s.) is held from time to time in Aug. It will be held in 1934, and is open without restriction to men and women. Students of this course who are graduates and who are teachers with 7 yrs.' experience may obtain the Univ. Diploma without further residence.

SCHOLARSHIPS AND FELLOWSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships and fellowships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. The Univ. offers a number of *Research Scholarships and Studentships*, e.g. a Biological scholarship (annually, £200 for 1 yr.) tenable at the Zoological Institute, Naples; the George Webb Medley Scholarships (2 annually, £80 to £300 p.a. for 2 yrs., renewable for not more than 3 yrs.), for Economics and Polit. Sci.; the Scott Scholarships (2 annually, c. £95 for 2 yrs.), "for the furtherance of physical science"; the Beit Senior Research Scholarship (on terms decided by the Bd. of Management of the Beit Fund, up to £250 in any yr.), for Colonial History; the Henry Francis Pelham Studentship (annually, £100 or less for 1 yr.), tenable at the British School of Archaeology at Rome; a Research Studentship (occasionally for 1 yr.), for Greek Lit.; the Bryce Research Studentship (annually, £240 for 1 yr.), for History.

There are also *Travelling Scholarships and Studentships*, e.g. the Derby.

Scholarship, for classical scholarship (incl. palaeography and philos.), offered annually (£200-£300 for 2 yrs, of which at least 8 mos. must be spent abroad, the Heath Harrison Travelling Scholarships (13 annually, £75 usually for 1 yr.) for study of a modern lang. abroad; the Zaharoff Travelling Scholarships (1 or more annually, £150 for 1 yr.), for promotion of French studies; the de Osma Studentship (annually, the net income from £2110 odd Funding 4 per cent Stock), for not less than 6 weeks' study at the Instituto de Valencia de Don Juan, Madrid; the George Herbert Hunt Travelling Scholarship (every other yr., c. £100), for Medicine.

The Colls. have power to elect persons distinguished in Science or Literature to Senior Research Fellowships on condition of prosecuting some definite work; they have also power to elect from time to time Junior Research Fellows for limited periods, usually after examn.

The General Board of Faculties has power to award studentships for advanced study and research, and there are certain funds, such as the Craver and Ireland, from which grants for the furtherance of particular studies may be made.

For post-graduate Scholarships and Fellowships open to non-members of the University, see App. XXIII.

The Rhodes Scholarships were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a year, tenable at Oxford for 3 years, subject to approval from year to year by his College of the Scholar's progress and conduct. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness and fellowship; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his school-mates."

*The Dominions and Colonies.* An annual Scholarship is assigned to each Province\* of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand (2); in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the Eastern Province and the towns of Kimberley and Port Elizabeth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 years.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

*United States of America.* 4 Scholarships are assigned annually to each of 8 regions, of 6 States each, which are awarded among candidates sent forward from each State in the region. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation

\* Two each to Quebec and Ontario.



of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by George E. Barnes, 6376 City Line Avenue, Philadelphia.

*Germany.* Two annual German Rhodes Scholarships of £350 a year each are tenable at Oxford for 2 years. The reason given by Mr. Rhodes for founding the German Scholarships is "that an understanding between the three great powers will render war impossible and educational relations make the strongest tie."

*Number actually in residence, 1931-1932 (whole or part), 196 (103 from the Brit. Empire, 89 from the U.S.A., 4 from Germany)—Studying Law, 48; Nat. Sc. and Med., 42; History, 23; Econs (Dipl., etc.), 8; Lit. Hum., 8; Engl., 21; Maths., 7; Phil. Pol. and Econs, 29; Mod. Langs., 7; other subjects, 3.*

*Professions followed by Rhodes Scholars since leaving Oxford.* Education, 490; Law, 359; Business, Industry, and Mining, 186; Govt. Service, 90; Medicine, 120; Ministry and Social Work, 48; Journalism and Publication, 43; Engineering, 34; Farming, 23; Forestry, 16; Army, Navy, or Air Service, 9; Miscellaneous and further Academic Studies, 54; not yet settled, 35.

*General.* Provision is now made under the Trust for the continuous residence at Oxford of between 190 and 200 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have at least 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S.W.1.

The most useful book dealing with the subject is *Oxford of To-day*, a manual for prospective Rhodes Scholars, Oxford Univ. Press, 1922; 2nd edition, 1927.

*Secretary to the Rhodes Trustees*—The Marquess of Lothian, C.H., Seymour House, Waterloo Place, London, S.W.1. Local Secretaries: Oxford—Sec. to the Rhodes Trustees and Warden of Rhodes House, C. K. Allen, D.C.L., Rhodes House, Oxford; U.S.A.—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; Canada—J. M. Macdonnell, 20 King St. East, Toronto; Australia—J. C. V. Behan, Warden's Lodge, Trinity College, Carlton, N.3, Victoria; S. Africa—P. T. Lewis, Temple Chambers, Wale St., Cape Town.

*The Rhodes Travelling Fellowships*, founded in 1926, are to enable resident Fellows, Tutors, or Lecturers of either sex at Oxford to travel, study, or undertake research in the British Commonwealth and the United States, and especially in those territories from which Rhodes Scholars are derived. A candidate must have spent at least 5 years as a resident Fellow in Oxford, and will be expected to return to Oxford when his Fellowship expires and resume his teaching there. The value of the Fellowship is £100 a month for from 6 to 12 months.

THE APPOINTMENTS COMMITTEE deals with appointments of all kinds. It has through its Consultative Committee reps. in every Coll. Sec.: C. E. D. Peters. Ednl. Sec., E. A. Greswell, 36 Beaumont St. Telegrams—Appointments, Oxford.

WOMEN'S APPOINTMENTS COMMITTEE. Apply to Mrs. A. L. Poole, St. John's House, St. Giles', Oxford.

THE BODLEIAN LIBRARY, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,400,000 vols. (representing more than 2,800,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position in Oxford or elsewhere, knowing the applicant personally. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library* (London, Duckworth, 1919, 2s. 6d.); *The Bodleian Quarterly Record* from 1914 (1s. quarterly, obtainable from the Libn.).

There are the following departmental libraries of the Bodleian:

*The Law Library* (law of English-speaking countries), and the *Maitland Library* (social and legal history), at the Examination Schools.

*The Radcliffe Science Library* at the Univ. Museum, 84,000 vols., consisting largely of books and periodicals on Maths., Nat. Sci., and Med., and of the Tylor Anthropological collection.

*The Indian Institute Library*, devoted to Oriental studies. There is also in the Indian Institute a museum illustrating Indian antiquities and Indian life.

*Rhodes House Library* (history, etc., of the British Empire and the U.S.A.).

THE TAYLORIAN LIBRARY (Modern Languages and Literature), 120,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance.

COLLEGE LIBRARIES. Modern History and Law, at All Souls (The Codrington Library); Political Economy and Science, also at All Souls (The Brand Library). Other important collections include Russian and Slavonic books, at Queen's; History and Literature MSS. of 17th cent., at Worcester; Music and Early Scandinavian collections, at Christ Church. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press, 1852.

There are also: the Nettleship Library, 1 Jowett Walk (Librarian—Dorothy M. Bigg); the English Library (Examination Schools) (Librarian—P. Simpson, M.A. Orrel); a Geographical Library (c. 14,000 vols. excluding periodicals) and Maps (c. 17,000) at the School of Geography, Mansfield Rd. (Librarian—J. N. L. Baker, B.Litt., M.A. Jesus); and a Library of Economics and Politics at Barnett House.

MUSEUMS. *The University Museum* includes collections and laboratories with the following depts.: Med. and Public Health, Human Anat., Pathol., Pharmacol., Chem. (Dyson Perrins Lab. and Old Chem. Dept.), Geol. and Palæontol., Mineral, Engin. Science, Physics, Physiol., Biochem., Zool. and Comparative Anat., Zool. (Lepidoptera collection illustrating mimicry, etc.), Experimental Philos.

*The Ashmolean Museum* (Keeper—E. T. Leeds, M.A. Magd.), the earliest English museum, formed 1600–1650, contains, in addition to a Library of Art and Archaeology, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon, and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

*The Lewis Evans Collection of Scientific Instruments* in the Ashmolean building illustrates the history of scientific studies, especially in Oxford, by contemporary instruments, engravings, and books.

*The Pitt-Rivers Museum* (Curator—H. Balfour, M.A. Exe.) has an anthropological collection illustrating the evolutionary history of material arts.

**LABORATORIES :** Electrical ; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics) ; Chemistry, Organic and Inorganic (several Colleges have labs of their own, *e.g.* Ch. Ch.—Analyt. Chem. ; Ball and Trin—Phy. Chem. ; Jes.—Inorganic, Queen's) Physiology ; Biochemistry ; Zoology ; Entomology, with extensive Collections and Library ; Botany (Garden with Collections and Library) ; Geology (special equipment for study of fossils by serial sections) ; Mineralogy (special facilities for research in Crystallography) ; Engineering ; Forestry (expl. plantations and forest garden) ; Human Anatomy ; Pathology and Bacteriology ; two *Observatories*.

THE IMPERIAL FORESTRY INSTITUTE is controlled by a Board of Governors representing the Univ. and the Government departments (Colonial Office, Forestry Commission, etc.) concerned. It provides post-graduate and specialized training, as well as revision courses for forest officers already serving, and forms a centre for research in regard to forest production. Practical instruction is provided in various forest centres on the Continent. Address : Sec., Imperial Forestry Inst., Oxford.

THE SCHOOL OF RURAL ECONOMY is the Department of the University responsible for teaching in Agriculture. There is an *Institute for Research in Agricultural Economics* and an *Institute for Research in Agricultural Engineering*. There is also an agricultural Advisory Institute responsible for advice and research on local problems in Oxfordshire and Northamptonshire. There is a farm in connexion with the School and the Institutes for demonstration and experimental purposes. The School and the Institutes are mainly financed by grants made by the Ministry of Agric. to the Univ. for this purpose. (See App. XXIV. A. I. (e), (g).)

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly exams and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. examns. of London, the Northern and other English Univs., and the Preliminary examns. of various professional bodies, etc. The Regulations of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries : at Oxford—C. H. Wilkinson, M.A., 40 Broad St. ; at Cambridge—T. G. Bedford, M.A., 62 Sidney St.

LOCAL EXAMINATIONS are held in July and Dec. at Oxford and elsewhere. Candidates successful in the School Certif. or in the Higher School Certif. examn., are on certain conditions exempted from Responsions, the Cambridge Previous and various matricn. examns. The regns. may be obtained from the Secy of Local Examns., Merton St. All the examns. are open to persons of both sexes.

**EXTRA-MURAL STUDIES.** There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy for Extra-mural studies may recommend the admission of adult students to the Univ. without the necessity of passing Responsions. The Delegacy controlling the Dept. has three Committees, one for Univ. Extension Lectures, one for Univ. Tutorial Classes, and one for promoting adult education in Oxon, Berks, and Bucks.

*Univ. Extension Lectures.* The system begun in Camb. was adopted by Ox.

in 1878. Up to the end of the session 1931-32 the number of persons attending courses was over 701,000, and the number of students examined 30,896; 26 summer meetings had been held. Reading University partly owes its origin to extension work. The following certs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay. Further information can be obtained from the Secy. to the Delegates for Extra-mural Studies, Rewley House, Wellington Square, Oxford (Rev. F. E. Hutchinson, M.A.).

*Tutorial Classes* are held in working-class districts under the supervision of the Tutorial Classes Committee. Students pledge themselves to a 3 yrs. course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Rewley House, Wellington Square, Oxford.

*Oxon, Berks, and Bucks Committee*, formed in 1924 for promoting adult edn. in the villages and small towns of those three counties. In the session 1931-32 there were 66 courses held in 56 centres.

*The Oxford Summer Meeting* is held biennially, and will take place in August 1933. The main subject of study will be "The Age of the French Revolution and the Romantic Movement."

**PUBLICATIONS.** *Calendar* (Nov.), 12s. 6d. net (includes Honours of each year from 1921. Earlier Honours given in *Historical Register*, 1900, 10s. 6d. net, and its *Supplement*, 1900-1920, 12s. 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, university scholarships, offices and their incumbents, etc.). *Responsions* Pamphlet (June), 6d. (Regs. for 1932-34 with dates of exams. and general information); *General Information* (admission, residence, entrance scholarships, exams. for B.A., etc.), 7d. post free; *Fellowships, Studentships, Scholarships, Exhibitions, and Prizes open to Undergraduate and Graduate Members of the University*, 1s. net; *Statutes and Decrees* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net; Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs), 1s. net; Handbook to the Univ. of Oxford, 1932, 5s. net; *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net; *Resident Members*, with their addresses, 2s. 6d. net (term); Decennial Report, 1914-23, on work of *Oxford and Cambridge Schools Examn. Board*, 6d.; *Enactments in Parliament concerning Ox. and Camb., Winchester, Eton, and Westminster*, 2 gs. Oxford Univ. *Roll of Service*, 1920, with names (14,561) and records of members of the Univ. who served in the Mil. and Naval Forces during the War, 15s. net. *Oxford of To-day*, a Manual for Prospective Rhodes Scholars, ed. L. A. Crosby, F. Aydelotte, and A. C. Valentine, 1923, 10s. net. All the above are obtainable from the Oxford Univ. Press and its branches, as is likewise the official *University Gazette* (annual subscription, 10s. 6d. post free). Unofficial periodicals: *Oxford Magazine* (during term), 6d.; *Isis* (during term), 6d.; *Cherwell* (during term), 6d.; *Fritillary* (during term), 6d. Among other sources of information regarding the University the following may be cited: Wood (A.), *Hist. of the Univ. of Oxford*, 3 vols., 1792-96; Wood (A.), *Athena Oxon. (with Fasti)*, ed. by P. Bliss, 4 vols., 1813-20; Maxwell-Lyte (H. C.), *Hist. of the Univ. of Oxford to 1530*, 1886; Foster (J.), *Alumni Oxon., 1500-1886*, 8 vols., 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; *College Histories*, published by F. E. Robinson & Co.; Wells (J.), *Oxford Degree Ceremony*, 1906 (2s. 6d. net); Headlam (C.), *The Story of Oxford*, 1907 (7s. 6d. net); Mallet (Sir C.), *Hist. of the Univ. of Oxford*, 2 vols., 1924 (£2: 2s. net); Barnard (F. P.) and Shepard (T.), *Arms and Blazons of the Colleges of Oxford*

(3s. 6d. net) ; Fletcher (C. R. L.), *Handy Guide to Oxford* (1s. net) ; *The Government of Oxford*, 1931 (3s. 6d. net).

**EXPENSES.** "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes. It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at from £70 to £80 a term for a man who exercises reasonable care in his expenditure. At Keble College there is a fixed annual charge (at present £150), covering tuition, the rent of furnished rooms, board, and service. The necessary expenses of a student of St. Catherine's Society have been estimated at from £90-£100 per annum, inclusive of board, lodging, fees, and subscription. At the residential Societies for Women Students an inclusive terminal fee is charged. This is about £50 a term, but varies slightly at the different Societies." —Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are:—(1) Annual: Univ. dues, £4: 10s.; College tuition fee, £24 to £31: 10s.; room rent, £15 to £18; hire of furniture, £6; College clubs, £6; rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial: matricn., £5; College admission fee (usually £5); College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional: examn. fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B.Litt., or B.Sc., £7: 10s.).

What has been stated above regarding the difficulty of estimating expenses at Oxford applies equally to Cambridge. The *Student's Handbook to Cambridge*, 1924-25 (Cambridge University Press, 7s. 6d.), deals with the subject of expenses very fully, and concludes with the following remarks: "The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £235, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career. . . . It is of the utmost importance that the foregoing estimates should not be taken for more than they are worth. . . . The only safe guide to a student's expenditure is information supplied by the college itself at which he decides to enter." The detailed statements on which the above estimate of annual expenditure is based include "guesses" as to personal expenses which the Oxford estimate leaves out of account. The items are:—Univ. fees (capitation tax), £5: 5s.; College fees, £54 (tuition, £24 to £30; establishment charge, £18 to £21; College dues, £4 to £10); board and lodging, £110 (rooms and service, £21 to £50; food expenses, £38 to £87; fuel, £5 to £7; laundry, £4: 10s. to £9); personal expenses, £67 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., and (£2 to £4: 10s.) cap, gown, and surplice. The "occasional" fees are for examns. £8 (medical, £16: 8s.), and degree fees, £5. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

## RECENT CHANGES IN STATUTES

Under the Universities of Oxford and Cambridge Act 1923, which set up a Statutory Commission for Oxford, new Statutes were made for the University

and for the Colleges. These Statutes were laid before Parliament and received the approval of the King in Council. A summary of the most noteworthy changes embodied in them, prepared by Sir Henry Sharp, K.C.I.E., the Secretary to the Commission, will be found in the *Yearbook* for 1929, pp. 221 and 222.

## THE YEAR 1931-32

**BENEFACTIONS.** The Rockefeller Foundation offered three-fifths of the estimated cost of extending the Bodleian Library, viz. £944,300, on condition that the Univ. provides the remainder, amounting to £377,720, by the end of 1936. Towards this the Univ. has offered sites valued at £79,000; the Colls. have guaranteed £48,000; the Trustees of the Oxford Univ. Endowment Fund have handed over all their assets, estimated at not less than £48,000, and a further £33,980 has been collected from various sources, a total of £219,980. A bequest from Sir Arthur Cowley of the residue of his estate, subject to certain life interests, for the general purposes of the Bodleian Library, estimated at an ultimate sum of £10,000. The proceeds of the sale of the late Mr. Thomas Whitcombe Greene's house and collections, for a Prize for classical art and archæol. and for two post-grad. scholarships for advanced research. Mr. William Toynbee has offered Dr. Paget Toynbee's house, "Fiveways," to the Univ. in accordance with his brother's wishes. Dr. Claridge Druce has bequeathed to the Univ. his house and herbarium with a sum of money for upkeep. From Prof. J. M. Baldwin, £1000 as capital endowment for the Edward Bagnall Poulton Fund. £270 from the Committee of the Curzon Memorial Fund for a Curzon Memorial Prize to be awarded every third year for an Essay on some aspect of Indian life or History.

**NEW BUILDINGS.** The extension of the Taylor Institution completed and opened by H.R.H. The Prince of Wales on Nov. 9, 1932.

**LEGISLATION AND GENERAL.** An improved system of accountancy has been experimentally introduced. The method of elections in Congregation has been changed; signed and witnessed voting papers will, in future, be returned to the Univ. Registry instead of being personally handed to the Vice-Chancellor in the Convocation House. A new scheme for Agric. Education and Research has been drafted; but, owing to the necessary reduction in the grant from the Ministry of Agriculture, a considerable part of the new scheme has had to be postponed. A satisfactory scheme of adjustment defining the relations of the Imperial Forestry Institute with the Univ. has been evolved after negotiations with the Colonial Office and other Depts. concerned. A Bureau of Animal Population has been experimentally established for research on the ecology and population problems of wild animals.

A Final Honour School in Geography has been created. Certain modifications have been introduced in Maths. in Honour Moderations and the examn. in Holy Scripture as part of the First Public Examn. has been abolished.

An Oxford Society open to all members—male and female, past and present—of the Univ. has been established. A provident Assn. has been established for the benefit of students, subscribing membership being limited to members of the Univ. under the age of 30, studying and resident in Oxford. Annual premium £3 and benefits include contributions towards med. and surg. fees, towards cost of maintenance in nursing-homes or hospitals, and towards expense of X-ray examns. and certain special kinds of treatment. An experimental organization, under the supervision of the Univ. Appointments Committee, has been established for the special benefit of women.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. Graham Wallis

(London School of Econ.) gave a course of Lectures on Polit. Theory. Prof. Gustave Cassel (Univ. of Stockholm) gave the Rhodes Lecture on "The Crisis in the World's Monetary System." Mons. Elie Halévy delivered a Memorial Lecture on Jeremy Bentham, at Queen's Coll. Mons. Jérôme Carcopino (of the Sorbonne) lectured on *Ce que Rome antique doit à la Gaule*.

**HONORARY DEGREES.** *D.C.L.*—H.R.H. The Duchess of York; The Rt. Hon. The Earl of Athlone, K.G., G.C.B., G.C.M.G., G.C.V.O., C.B., P.R.C.S.; H.E. Baron E. de Cartier de Marchienne, the Belgian Ambassador; Sir John Arthur Salter, K.C.B., M.A., Hon. Fellow of Brasenose Coll.; William W. Buckland, Regius Prof. of Civil Law at Cambridge; Edward Robert Peacock. *D.Litt.*—George Earl Buckle, M.A., All Souls, LL.D. St. Andrews; William Wyamar Vaughan, M.A., New Coll.; Prof. Jérôme Carcopino, Prof. P. Fournier and Prof. Alexandre Moret, of the Univ. of Paris; G. L. Kittredge, A.B., LL.D., Litt.D. (Harvard), Gurney Prof. of English Lit. in Harvard Univ. *D.Sc.*—Sir E. John Russell, Kt., O.B.E., D.Sc. Lond., F.R.S.; Prof. Willem de Sitter (Univ. of Leiden). *M.A.*—Mrs. Helen Mary Allen; The Rev. E. de M. Rudolf, Prebendary of St. Paul's Cathedral; Edward Ewart Skuce. *D.D.*—Alfred Walter Frank Blunt, B.D., M.A., Exeter Coll., Bishop of Bradford; Dr. Albert Schweitzer. *D.Mus.*—Prof. Edward Joseph Dent, M.A., Mus.B. (Camb.), Prof. of Music (Univ. of Cambridge); Henry Hope Colles, B.Mus., M.A., Worcester Coll.; Egon Wellesz.

**SPECIAL ANNUAL LECTURES.** The Romanes Lecture was delivered by Lord Moynihan, K.C.M.G., C.B., P.R.C.S. (subject: "The Advance of Medicine"); the Halley Lecture by E. A. Milne, M.A. (subject: "The White Dwarf Stars"); the Herbert Spencer Lecture by R. A. Fisher, Sc.D. Cambridge (subject: "The Social Selection of Human Fertility").

**DEATHS.** The deaths of the following may be mentioned: Dr. Herbert Armitage James, President of St. John's Coll.; Sir Arthur Cowley, Bodley's Librarian; Sir William Somerville, Prof. Emer. and formerly Sibthorpean Prof. of Rural Econ.; Rev. Frederic Henry de Winton, formerly Archdeacon of Colombo; Rev. Frank Edward Brightman; Mr. Douglas Thring, Estates Bursar of Merton Coll.; Major Arthur Kerr Slessor, Steward of Christ Church; Rt. Rev. Charles Gore, Hon. Fellow of Trinity and of Balliol; Dr. Francis Pierrepont Barnard, Hon. Fellow of Pembroke; Dr. Paget Jackson Toynbee, Hon. Fellow of Balliol; Sir Horace Curzon Plunkett, Hon. Fellow of Univ. Coll.; John Meade Falkner, Hon. Fellow of Hertford; Prof. Gerard Baldwin Brown, Hon. Fellow of Oriel; Mr. Charles Prestwich Scott, Hon. Fellow of C.C.C.; Mr. George Eastman, founder of the George Eastman Visiting Professorship; Dr. George Claridge Druce, Curator of the Fielding Herbarium; Sir Mervyn Macartney, Surveyor to Dean and Chapter of St. Paul's Cathedral.

**RETIREMENTS.** Dr. Pember, Warden of All Souls College; Dr. Poynton, Public Orator; Prof. Griffith (Egyptology); Prof. Mitchell (Economics).

**STUDENTS.** Full-time, 4771; research students, 198; preparing for first degree, 4298; other full-time students, 275. Matriculations, 1566.

Extra-mural tutorial classes; 2 preparatory; 10 three-year; 13 vacation. Total students enrolled, 813.

University Extension lectures, 252 at various centres, aggregate average attendance, 747. Of these courses 5 were in Hist., 5 in Lit., 2 in Music, 2 in Econ., and 2 in Nat. Sci.

**DEGREES.** B.A., 1111; M.A., 441; B.Litt., 21; B.Sc., 26; D.Sc., 2; B.C.L., 29; B.M., 31; D.M., 8; M.Ch., 0; B.Mus., 6; D.Phil., 19; D.D., 0; D.Litt., 3; D.Mus., 0; B.D., 0; D.C.L., 2.

# UNIVERSITY OF READING

VISITOR—H.M. THE KING.

CHANCELLOR—J. H. BENYON, M.A., Lord-Lieutenant of Berkshire

VICE-CHANCELLOR—T. FRANKLIN SIBLY, LL.D., D.Sc.

PRESIDENT OF THE COUNCIL—SIR GEORGE R. MOWBRAY, Bart., B.A.

TREASURER—A. P. SHAW.

REGISTRAR—E. SMITH, B.Litt. Ox., M.A., B.Sc. Liv.

DEANS OF FACULTIES. See under "General Information"—Faculties.

LIBRARIAN—S. A. PEYTON, Ph.D.

BURSAR—J. S. SIMPSON, B.Sc.

## PROFESSORS, LECTURERS, ETC.

*Agriculture, etc., v. infra*

*Art* (School of Art)

Seaby, A. W. Prof.

Lecturers :

Pearce, C. C., R.B.A. (Design and Composition).

Yates, H. J. (Drawing and Painting).

Carter, A. C., A.R.B.S. (Modelling and Sculpture).

Ashford, Faith, B.Sc. Lond. (Educational Handwork).

2 Teachers.

*Bio-Chemistry, v. Agr.*

*Botany, v. also Agr.*

Matthews, J. R., M.A. Edin., F.L.S. Prof.

Ingold, C. T., M.Sc., Ph.D. Belf. Lectr.

Pranker, Theodora L., D.Sc. Lond., F.L.S. Lectr.

*Chemistry, v. also Agr.* [Prof.

Bassett, H., D.Sc. Lond., Ph.D. Mun., D. ès Sc. Nancy, F.I.C.

Dodgson, J. W., B.Sc. Lond., A.I.C. Lectr.

Maxted, D. R., B.Sc. Lond., A.R.C.S. Lectr.

Wynne-Jones, W. F. K., B.Sc. Ox., B.Sc. Wales Lectr.

Durrant, R. G., M.A. Ox.

Hon. Research Fellow.

*Classics*

Ure, P. N., M.A. Camb. Prof.

Semple, W. H., Ph.D. Camb., M.A. Belf. (Latin) Reader.

Fisher, W. H., M.A. Camb. Lectr.

Jolliffe, Norah C., M.A. Camb. Lectr.

Ure, Mrs. A. D., B.A. Lond. Hon. Research Fellow.

*Commerce*

Taylor, H., F.L.A.A. Lectr.

Coman, Grace Asst. Lectr.  
i Asst.

*Dairying, v. infra*

*Domestic Subjects*

Wood, Mrs. E. May Lectr. in charge of Dept.

Henry, D. Mildred Asst. Lectr.

Priestley, Beatrice A., O.B.E. Asst. Lectr.

Smith, Winifred O. Asst. Lectr.

i Teacher of Needlework.

i Sessional Lectr. in Hygiene.

*Economics*

Buer, Mabel C., D.Sc. (Econ.)

Lond. Lectr.



*Education* [Sen. Lectr.  
Cooke, H. S., M.A. Ox. and Cape

Lecturers :  
Campbell, Isabella E., M.A., B.Ed.  
Edin.

Glason, J. A., M.B.E., B.A. Lond.,  
M.A.

Mitchell, W. F., B.Litt. Ox., M.A.  
Edin.

Smith, E., B.Litt. Ox., M.A., B.Sc.  
Liv.

Wolters, A. W. P. (v. Psychology).  
2 Instrs. in Physical Training.

*English Language & Lit.* [Prof.  
Dewar, R., M.A. Glas. (E. Lit.)  
Morley, Edith J., M.A. Ox. (E.  
Lang.) Prof.

Dyson, H. V. D., B.Litt., M.A.  
Ox. Lectr.

Olszewska, Elizabeth S., B.A.  
Leeds Lectr.

*French* [Prof.  
Desseignat, J., Ag. de l'U. Paris  
Gerson, G. H., M.A. Camb. Lectr.  
Paton, Dorothea A., M.A. Ox. ,,  
Salmon, Yvonne M. A., L. ès L.

Lectr.  
*Geography* [Lectr.

Gilbert, E. W., B.Litt., M.A. Ox.  
Miller, A. A., M.Sc. Lond. Lectr.

Morris, W. F., B.A. Lond.  
Sessional Asst. Lectr.

*Geology*  
Hawkins, H. L., D.Sc. Manc.,  
F.G.S. Prof.

Wager, L. R., B.A. Camb., B.Sc.  
Lond. Lectr.

Walder, Phoebe S., B.Sc. Lond.  
and Read.

Demr. and Museum Asst.

*German* [Lectr.  
Matthews, Evelyn, M.A. Wales

*History, Modern* [Prof.  
Stenton, F. M., M.A. Ox., F.B.A.

Childs, W. M., M.A., D.Litt. Ox.,  
LL.D. Liv. Hon. Prof.

Aspinall, A., M.A., Ph.D. Manc.  
Lectr.

Stenton, Mrs. D. M., B.A. Lond.  
Lectr.

Peyton, S. A., Ph.D. Asst. Lectr.

*Mathematics*  
Neville, E. H., M.A. Camb., B.Sc.  
Lond. Prof.

Lecturers :  
Ashcroft, Lucy, M.A. Dub.  
Broadbent, T. A. A., M.A. Camb.  
Hargreaves, J., M.A., Ph.D. Camb.  
Ternouth, Elsie J., M.A. Glas.  
2 Teachers of Machine Drawing  
and Applied Mechanics.

*Music*  
Allen, Sir Hugh P., K.C.V.O., M.A.  
Camb., D.Mus. Ox., Mus.D.  
Camb., D.Litt. Shet.

Visitor of School.  
Stanton, W. K., M.A., B.Mus. Ox.  
Lectr. in Charge of School.  
13 Teachers.

*Philosophy*  
de Burgh, W. G., M.A. Ox. Prof.  
Hodges, H. A., M.A., D.Phil. Ox.  
Lectr.

*Physics*  
Crowther, J. A., M.A., Sc.D.  
Camb., F.Inst.P. Prof.  
Bond, W. N., M.A. Camb., D.Sc.,  
B.Sc. (Eng.) Lond., A.R.C.S.,  
F.Inst.P. Lectr.  
Pearson, R. L. Lectr.  
Vedy, L. G., M.A. Camb., B.Sc.  
Lond. Lectr.

*Psychology*  
Wolters, A. W. P., M.A. Lond.  
(also Lectr. in Educn.) Lectr.  
Oldham, Mrs. H. W., B.Sc. Lond.,  
M.A. Sessional Lectr.

*Spanish* [Sessional Teacher.  
Edwards, P. C., M.A. Camb.

*Vet. Hygiene*, v. Agric.

*Zoology*  
Cole, F. J., D.Sc. Ox., F.R.S. Prof.  
Eales, Nellie B., D.Sc. Lond. Lectr.  
Stoneman, W. E., M.A. Camb.  
Museum Asst.

**Agriculture and Horticulture**

*Agriculture*

- Pennington, S., B.Sc. Edin.,  
M.R.C.V.S. (till 29.9.33) Prof.  
Black, D. J. G., B.Sc. (Agric.)  
Edin. Lectr.  
Campbell, K. W. D., B.Sc. Durh.,  
M.Sc. Lectr.

*Agr. Bacteriology*, v. also Dairy B

- Allen, L. A., B.Sc., Ph.D. Lond.,  
M.Sc. Lectr.

*Agr. Botany*

- Brierley, W. B., D.Sc. Manc.,  
F.L.S. Prof.  
Erith, Adela G., B.Sc., Ph.D.  
Lond. Lectr.  
Waldie, J. S. L., B.Sc. Edin. Lectr.  
Robson, W. S., B.Sc. Durh. Demr.  
1 Asst.

*Agricultural Chemistry*

- Neville, H. A. D., M.A. Camb.,  
B.Sc. Lond., F.I.C. Prof.  
Bee, J. W., M.A. Camb. Lectr.  
Nicholson, N. M., B.Sc. Glas.,  
A.I.C.

Lectr. and Advisory Officer.

- Rowland, S. J., B.Sc. (Agric.)  
Lectr.  
Thompson, J., Ph.D. Heid, F.I.C.  
Analyst.  
Kay, Frances F., B.Sc. (Hortic.)  
Research Asst.

*Agric. Economics*

- Thomas, E., B.Litt. Ox., B.Sc.  
Wales  
Lectr. and Advisory Officer.  
1 Asst.

*Animal Physiology*

- Peskett, G. L., M.A. Ox. Lectr.

*Bio-Chemistry*

- Kay, H. D., O.B.E., Ph.D. Camb.,  
D.Sc. Manc. Research Prof.

*Building Construct., etc.*

- Hitchins, W. W., L.R.I.B.A.,  
P.A.S.I. Lectr.  
1 Asst.

*Dairying*

- Todd, A. Lectr.

- O'Shea, M. J., B.Sc. (Dairying)  
N.U.I. Lectr.

1 Instructor, 1 Research Asst.

*Dairy Bacteriology*

- Mattick, A. T. R., B.Sc., Ph.D.  
Lond. Lectr.  
Maddock, E. C. G., C.I.E., M.D.,  
Ch.B. Edin., D.P.H. Camb.,  
D.T.M. Liv.

Hon. Research Fellow.

1 Adviser and 2 Assts.

*Dairy Chemistry*

- Golding, J., F.I.C.  
Research Chemist.

Assts for Research :

- Davies, W. L., Ph.D. Camb., M.Sc.  
Wales, N.D.A., F.I.C.  
Kon, S. K., Ph.D. Warsaw.  
Mattick, Mrs. E. C. V., M.Sc.,  
Ph.D. Bris.

*Dairy Husbandry*

- Mackintosh, J., O.B.E., N.D.A.,  
N.D.D.  
Head of Research Section  
and Lectr.

1 Asst.

*Economic Entomologist*

- Hodson, W. E. H., A.R.C.S., D.I.C.

*Economic Mycologist*

- Buddin, W., M.A. Camb.

*Horticulture*

- Stoughton, R. H., D.Sc. Lond.,  
A.R.C.S. Prof.  
Cobb, A. J. Senr. Lectr.  
Cook, H. H. Lectr.  
Hole, Doris R., B.Sc. Lond. Lectr.  
1 Instructor.

*Machinery*

- Passmore, J. B., B.Sc. Lond., M.Sc.

*Veterinary Hygiene*

- Male, G. P., M.R.C.V.S. Lectr.

*Veterinary Science*

- Barron, N. S., B.Sc. Lond.,  
M.R.C.V.S.  
Vet. Surgeon and Advis-  
ory Officer.

**University Extension**

- Tutors, 4.

**BRITISH DAIRY INSTITUTE** (occupying a building on the University site and controlled by a committee representing the British Dairy Farmers' Assocn. and the University). Lecturer in Dairying—A. Todd. 1 Instr., 1 Asst. Instr. and Lectr.

**THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING**, Shinfield, near Reading, established by the Ministry of Agric. and Fisheries in 1912, forms part of the Univ. (Director—H. D. Kay, O.B.E., Ph.D.Camb., D.Sc.Manc.). It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has five Depts.—Dairy Bacteriology, Dairy Chemistry, Dairy Husbandry, Physiology, and Dairying. *See also* App. XXIV. A. I. (d).

## GENERAL INFORMATION

The University was established by Royal Charter, March 17, 1926. For early history, see *Yearbook* for 1929.

**LIBRARY**, 55,000 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire); 17,000 pamphlets. 200 periodicals are received. **MUSEUMS**: Zool. and Hist. and Archæol. **LABORATORIES**: Bacteriol., Bot., Chem., Geol., Mech., Physics, Psych., Zool. Fine Art Studios. School of Music. Agricultural Machinery Hall. Two farms (359 and 141 acres) and Horticultural Station.

**FACULTIES**: (1) Letters, (2) Science, (3) Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

**DEANS**: (1) Prof. de Burgh (Philos.); (2) Prof. Crowther (Phys.); (3) Prof. Neville (Agr. Chem.).

**SCHOOLS**: Art, Music.

**DEPARTMENT**: Domestic subjects.

**ADMISSION**. *See* Appendix XXII. Entrance examn. for Diploma courses in Commerce, Agric., Dairying, Hortic., Landscape Architecture, Domestic subjects.

**DEGREES**: B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agric.), B.Sc. (Dairying), B.Sc. (Hortic.); Ph.D. The M.Sc. and D.Sc. are obtainable in the Faculty of Agriculture and Horticulture as well as in the Faculty of Science. The Senate may decline to admit to a degree course a person whose place of residence during term is at too great a distance from Reading, and the degree of Bachelor may not be granted to a candidate whose record as a student of the University is not deemed satisfactory.

The Charter provides that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

An *oral examination* forms part of the Final examn. for a B.A. degree with honours, except in Mathematics, and, at the discretion of the Examiners, may form part of the Intermediate or of the Final Examn. for a Pass B.A. degree, or of the Intermediate or Final Examn. for the B.Sc. In the Final Examn. for the B.Sc. candidates are examined upon either a *General Course of study* (3 subjects) or a special course; honours can be obtained in either case. The Final Examn. (Special) is ordinarily taken after passing the Final Examn.

(General). The course for the degree with honours extends over 4 years in Agriculture and in certain cases in Arts and in Science.

UNIVERSITY DIPLOMA COURSES are as follows: 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic.; 3 yrs.—Landscape Architecture, Fine Art, Music, Distinction in Agric., Dairying, Domestic subjects, or Hortic. Univ. Diploma Course (post-graduate) in Education (1 yr.).

OTHER COURSES for Univ. Certifs., Dairying (6 mos.), Agric., Commerce, Domestic subjects, Hortic., Secretarial subjects (1 yr.), Jewellery and Enamelling, Wood Carving, Woodwork, Embroidery, Leather Work, Weaving, Writing and Illuminating (2 yrs.), Dairy Factory Management (10 weeks); for the Pre-Medical examn. of the R.C.P. and R.C.S. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mos.), L.R.A.M., A.R.C.M., etc.

TUTORIAL SUPERVISION. Every student following one of the organized day courses or a specially arranged day course involving frequent attendance at the Univ. for at least 2 terms is placed under the supervision of a tutor.

A RESEARCH BOARD promotes research and original work in the Univ. (apart from the National Institute for Research in Dairying). It administers funds entrusted to it for the purpose, and issues an annual record and report.

TERMS. 3, each of 10 weeks, the first beginning on the first Friday in October. Vacations of 4 weeks at Christmas and 5 weeks at Easter.

RESIDENCE. All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a University Hall of Residence. There are two Halls (Wantage and St. Patrick's) for men, and four (St. Andrew's, Wessex, St. George's, and Ashdown) for women students. Full-time day students living in recognized houses, or at home in or near Reading, are associated in St. David's Hall, a non-residential club.

SCHOLARSHIPS OPEN TO GRADUATES. Offered annually by the Univ.—£100; "Ernest Ridley"—£50 plus tuition fees, for one year, renewable for a second year.

FEES. For Tuition: Ph.D. course—£5 or £7 p.a.; M.A. course—£5 p.a.; M.Sc. course—£7 p.a.; Bachelor's Degree course—Arts, £30 p.a.; Sc. or Agric. or Dairying or Hortic., £35 p.a.; Diploma course—Commerce, £25 p.a.; Agric. or Hortic. or Landscape Architecture or Domestic subjects, £30 p.a.; Dairying, £35 for 1st, £41 for 2nd year; Fine Arts, £18; Certif. course—£18 to £30. Tuition fees are in most cases reduced by 25 per cent. to students from neighbouring counties, under certain conditions.

EXPENSES. Total average necessary yearly expenses (excluding travelling, clothing, and personal laundry) about £120 p.a., namely: (i.) Registration, matriculation, cap and gown, tuition, examination, and graduation, average £38 p.a. for a degree student; for diploma or certificate student somewhat less. (ii.) Maintenance, including board and lodging in Halls or lodgings and sanatorium fee, maximum for 30 weeks about £77 for a man and £69 for a woman student. (iii.) Personal, including subscription to Union (3 gs. p.a.), and cost of books and stationery, widely variable, say £6 p.a.

Courses of lectures open to the public are ordinarily charged for at 15s. per term (30s. per session) for each subject (one hour per week).

STUDENT ORGANIZATIONS: Students' Union and Representative Council. An Old Students' Association meets annually at the Univ. at Whitsuntide.

UNIVERSITY EXTENSION, ETC. Agriculturists are helped by correspondence,

visits, local lectures, examination of diseased plants, etc. Evening classes are held in Machine and Building Constn., Builders' Quantities, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

**PUBLICATIONS.** *Calendar*; *University Gazette*; General Prospectus (including illustrations and plans); Departmental Prospectuses (Degree courses, Training of Teachers, Commerce and Secretarial, Agriculture, etc., Fine Arts and Handicrafts, Music, Domestic subjects); Scholarships and Exhibitions; Guide to Evening Classes, 2d.

## THE YEAR 1931-32

**BENEFACTIONS.** In response to the Building Fund Appeal, the Trustees of the late Mr. S. W. Farmer, £5000. Other gifts include £187 from the Friends of the University.

**NEW BUILDINGS.** The third building erected under the scheme for the provision of new buildings on the main Univ. site has been completed and is in use for the dept. of Agricultural Chemistry and offices for the Dean of the Faculty of Agriculture and Horticulture.

**NEW POST.** A Research Assistant in the Dept. of Agricultural Chemistry.

**RESIGNATIONS AND RETIREMENTS.** Sir Leslie O. Wilson (Vice-President of the Council); Prof. J. Percival (Agric. Bot.); Miss H. M. Wood (Sub-Warden of Ashdown and St. George's Halls).

**DEATHS.** Leonard G. Sutton, C.B.E. (President of the Council); Prof. R. Stenhouse Williams (Dairy Bacteriol.; Director of the National Institute for Research in Dairying); H. Knapman (Registrar).

**STUDENTS.** Full-time: total, 608, including 84 graduates. Part-time: total, 907, including 10 graduates.

**DEGREES.** B.A., 38; B.Sc., 29; B.Sc. (Agric.), 10; B.Sc. (Dairying), 3; B.Sc. (Hortic.), 8; M.A., 4; M.Sc., 4; Ph.D., 2.

# THE UNIVERSITY OF SHEFFIELD

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G., D.C.L., LL.D.

PRO-CHANCELLOR—Lt.-Col. H. K. STEPHENSON, D.S.O., D.L., LL.D.

VICE-CHANCELLOR—A. W. PICKARD-CAMBRIDGE, M.A., D.Litt.

TREASURER—W. N. DREW, A.R.S.M., M.I.Chem.E.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A.

LIBRARIAN—A. P. HUNT, B.A.

## PROFESSORS, LECTURERS, ETC.

*Anatomy* [A. Jackson Prof.  
Patten, C. J., M.A., M.D., Sc.D.  
Dub., F.R.A.I.

Naish, Mrs. Lucy, M.B. Lond.  
(Osteology) Lectr.

MacConaill, M. A., M.B., B.Ch.,  
B.A.O., M.Sc. Belfast  
Senr. Lectr. and Demr.

Yates, H. B., M.A., M.B. Camb.,  
F.R.C.S. (Surg. Anat.)  
Lectr. and Demr.

McCullum, W. K., M.B., B.Ch.,  
B.A.O. Belf. Hon. Demr.

Cameron, D., M.B., Ch.B. Glas.  
Hon. Demr.

### *Architecture*

Welsh, S., M.A., B.Arch. Liv.,  
A.R.I.B.A. Lectr.

1 Hon. Lectr. for Evening  
Courses.

Leighton, H. B., M.A., A.R.I.B.A.  
Asst. Lectr.

Smith, C. B., A.R.C.A.

(Freehand Drawing and  
Colour) Hon. Lectr.

*Art, v. Civic Art*

*Biology, v. Zool. and Botany*

### *Botany*

Bentley, B. H., M.A. Ox., F.L.S.  
Prof.

Lind, Edna M., B.Sc., Ph.D. Liv.  
Lectr.

Boswell, J. G., M.Sc. Lond.  
Asst. Lectr.

### *Chemistry*

Bennett, G. M., M.A., Sc.D. Camb.,  
B.A., Ph.D. Lond., F.I.C.

Firth Prof.  
Glasstone, S., Ph.D., D.Sc. Lond.,  
F.I.C. (Phys. C.) Lectr.

Chapman, A. W., D.Sc. Lond.,  
F.I.C. (Organic C) Lectr.

Asst. Lectrs. :  
Turner, Emily G., M.Sc.

Bennett, Dorothy M., M.Sc.

Smith, T. B., B.Sc. Lond.

Speakman, J. C., M.Sc., Ph.D.

Jones, B., B.Sc., Ph.D. Wales.

### *Civic Art*

..... Prof.

### *Classics*

Forster, E. S., M.B.E., M.A. Ox.,  
F.S.A. (Greek) Prof.

Craig, J. D., M.A., D.Litt. St. And.,  
B.A. Ox. (Latin) Firth Prof.

Tredennick, G. H. P. P., M.A.  
Camb. Lectr.

Maguinness, W. S., M.A. Dub.  
Asst. Lectr.

### *Dentistry, v. infra*

*Economics*

Knoop, D., M.A. Manc. Prof.  
Jones, G. P., M.A. Liv.

(Econ. Hist.) Lectr  
Pool, A. G., B.Sc. (Econ.) Lond.  
Lectr.

*Education*

Turnbull, G. H., M.A. Liv., Ph.D.  
Bonn Prof.

## Lectrs :

Bradford, E. J. G., M.Sc. Lond.  
King, Etheldreda, B.A. Lond  
Thompson, J. Ridley, D.Sc. Durh.  
Dickinson, Olive D., M.Sc.  
Halloran, J. H., M.A. Leeds.  
Sargeant, M. Joan, B.A., B Litt.  
Ox.

*Engineering, Civil*

Husband, Joseph, M Eng,  
F.R.C.Sc I., M.Inst.C.E., M.  
Am S.C.E., M. French Soc.  
C.E., M.I.Struct.E. Prof.  
Snelgrove, E. C., M.I.Struct.E.,  
M. French S.C.E. Lectr.  
Jenkins, J., M.Sc. Belf. Lectr.

*Engineering, Elec.*

Wall, T. F., D.Sc. Vict., D.Eng.  
Liv., M.I.E.E. Lectr.

## Asst. Lectrs. :

Hainsworth, C. H., M.Eng.  
Joyce, T. C., B.Sc. Lond. & Bris.  
Barratt, N. M., B.Sc. Tech. Manc.  
Lloyd, H., M.Eng.  
(Wireless Telegraphy) Demr.

*Engineering, Mechanical*

Lea, F. C., O.B.E., D.Sc. Lond.,  
A.R.C.S., M.I.C.E., M.I.M.E.  
Prof.  
Boulden, F., B.Sc. Lond., M Eng.,  
M.I.M.E. Senr. Lectr.  
Kershaw, J. W., M.Sc. Vict.,  
M.Eng. Senr. Lectr.  
Hibbins, W. G., B.Sc. Lond.,  
B.Eng. Lectr.  
Waite, C. W., B.Sc. Lond. Lectr.  
Davies, H. J., M.Sc. Lond. Lectr.  
Turner, F. C., M.Eng. Lectr.

## Asst. Lectrs. :

Burnet, W., B Eng  
Parker, C. F., B.Sc. Lond.

*Engineering, Mining*

Hay, D., B.Sc. Lond., M.I.C.E.,  
M.I.M.E. Hon Prof.  
Statham, I. C. F., M Eng,  
M.I.M.E., F.G.S. Prof.  
Bevan, E., B.Sc. (Min.) Lond.,  
M.I.M.E. Lectr.  
Sinclair, J., M Eng, M.I.M.E.  
Lectr.  
Cooke, W. E., M Eng., M.I.M.E.  
Research Asst.

*English Lang. and Lit.*

Evans, B. I., M.A. Lond.  
(Eng. Lit.) Prof.  
Jones, J. D., M.A., B.A. Lond.,  
Ph.D. Berl.  
(Eng. Lang.) Lectr.  
Hamer, D., M.A. Liv. Lectr.  
Reynolds, W. V., B.A., B Litt Ox.  
Asst Lectr.

*French*

Baker, A. T., Litt.D. Camb.,  
Ph.D. Heid, O.I.P. Prof.  
Clapton, G. T., M.A. Lectr.  
Boase, A. M., M.A. Ox., Ph.D.  
Camb. Lectr.  
Espiner, Janet G., M.A. Glas.,  
D. de l'U. de Paris  
Asst. Lectr.

*Geography*

Brown, R. N. Rudmose, D.Sc.  
Aberd. Prof.  
Garnett, Alice, B.A. Lond.  
Asst. Lectr.

*Geology*

Fearnside, W. G., M.A. Camb.,  
F.R.S. Sorby Prof.  
Wilcockson, W. H., M.A. Camb.  
Lectr.  
Shirley, J., M.Sc. Manc.  
(Mining G.) Asst. Lectr.

*German*

Dunstan, A. C., B.A. Lond., Ph.D.  
Koenigs. Lectr.  
Zetzel, Edward, Ph.D. Innsb.  
Asst. Lectr.

*History*

- Woodward, A M, M.A Ox, F.S.A  
(Ancient H.) Lectr.  
Potter, G. R., M.A, Ph D Camb.  
(Mod. H.) Prof.  
Lewis, N. B., M.A., Ph.D. Manc.  
(Modern H) Lectr  
Tyler, J. E, B.A Ox., M.A.  
(Modern H.) Lectr.

*Law*

- Trotter, W. F., K.C. (Scot.), LL.D.,  
M.A. Camb. Prof.  
Metcalfe, O. K., M.A, LL.M. (Pub.  
and Com. L.) Lectr.  
Renwick, J., M.A, LL B. Camb  
(Real Prop. and Conveyg)  
Lectr.  
Stone, H., LL.M. Asst. Lectr.  
Downing, F., A.C.A.  
Tutor in Trust Accounts, etc.

*Mathematics*

- Daniell, P. J., M.A., Sc.D. Camb.  
Town Trust Prof.  
Stewart, C. A., M.A., D.Sc. Glas.,  
B.A. Camb. Lectr  
Cox, R. R. S., M.A. Camb.  
Lectr. and Curator of  
Observatory.  
Asst. Lectrs. :  
MacIntyre, A. J, B.A. Camb.  
Frame, J. W., B.A. Camb.  
Andress, W. R, B.A. Camb., B.Sc.  
Manc. (Engin. Dept.)

*Medicine, v. infra**Metallurgy, v. also Tech.*

- Andrew, J. H., D.Sc. Manc. Prof.  
Ibbotson, F., B.Sc. Lond., D.Met.,  
F.R.C.S.I., F.I.C. (also Lectr.  
in Dental M) Sen. Lectr.  
Knowles, F. K., M.Met. (also Lectr.  
in Dental M.) Sen. Lectr.  
Orme, F., M.Met. Lectr.  
Rees, W. J., D.Sc. Tech., F.I.C.  
(Refractories) Lectr.  
..... (Electro-M.) Lectr.  
Asst. Lectrs. :  
Percival, R. T.  
Gregory, E., B.Sc. Lond., F.I.C.

*Mining, v. Engin., Geol.**Music*

- Shera, F. H, M.A, Mus.M. Camb,  
F R C O, A.R.C.M  
James Rossiter Hoyle Prof.

*Philosophy*

- Laing, B. M., M.C, M.A., D Litt.  
Aberd. Lectr.

*Physics*

- Milner, S. R., D.Sc Lond. and  
Bris., F.R.S., F.I.P. Prof.  
Lawson, R. W., D.Sc. Durh,  
F.I.P. Lectr.  
Clarke, J. R., M.Sc., F.I.P. Lectr.  
Asst. Lectrs. :  
Evans, Morgan H., B.Sc. Wales.  
Cameron, W. H. B., M.Sc. Belf.  
Elliott, A., B.Sc., Ph.D. Durh.,  
Sc.D. Utrecht.

*Physiology*

- Leathes, J. B., M.A., M.B., B.Ch.  
Ox., F.R.C.P., F.R.C.S.,  
F.R.S. Prof.  
Eaves, Eliz. C., B.Sc., M.D., B.S.,  
D.P.M. Lond. Lectr.  
Imrie, C. G., M.D. Westn. Ont.,  
F.R.C.P. Lectr.  
Clark, G. A., M.D. Durh. Lectr.  
Gumpert, T. E., M.B., Ch.B.,  
M.R.C.P. Demr.

*Public Health, v. Medicine**Russian*

- Birkett, G. A., M.A. Liv. Lectr.

*Spanish*

- [Hughes Lectr.  
Birch, J. N., B.A. Lond.  
de Fenn, Beatriz, L. ès L.  
Asst. Lectr.

*Technology, Fuel*

- Wheeler, R. V., D.Sc. Manc.,  
F.I.C., M.I.M.E. Prof.  
Batley, W. A., M.Sc. Manc. Lectr.  
Wigginton, R., M.Sc. Lond.,  
A.R.C.S. Lectr.  
Rees, W. J., M.Sc. Tech., F.I.C.  
(Refractories) Lectr.



Beet, A. E., B.Met. Demr.  
Mott, R. A., M.Sc. Leeds, F.I.C.  
Research Asst.

### *Technology, Glass*

Turner, W. E. S., O.B.E., D.Sc.  
Lond., M.Sc. Birm., F.I.P.  
Prof.

Parkin, M., M.Sc. Lectr.

Seddon, E., B.Sc., Ph.D. Leeds  
Asst. Lectr.

### Research Assts.:

Dimbleby, Violet, M.Sc.  
Warren, W. J. A., B.Sc. Durh.  
Longmuir, B., B.Eng.  
Maskill, W., B.Sc. Lond.

### Research Fellow:

Holland, A. J., M.Sc. Lond.

### *Zoology*

Eastham, L. E. S., M.A. Camb.,  
M.Sc. Leeds Prof.

Graham, A., M.A., B.Sc. Edin.  
Lectr.

Flower, Winifred U., B.Sc. Lond.  
Demr.

### Medicine

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

### *Bacteriology*

Edington, J. W., M.D., D.P.H.  
Edin. Prof.

Brown, Dorothy, M.B., Ch.B.  
Lectr.

Paine, C. G., M.B., B.S. Lond.  
Lectr.

Coveney, Margaret F., M.B., Ch.B.  
Jr. Asst. Bacteriologist.

### *Dermatology*

Hallam, A. R., M.D., Ch.B. Edin.  
Lectr.

1 Clinical Teacher.

### *Diseases of Children*

Leader, H., M.B. Lond., M.R.C.S.,  
L.R.C.P. Lectr.

2 other Clin. Teachers.

### *Dis. of Ear, Nose, and Throat*

Townrow V., M.B., B.S. Lond.,  
F.R.C.S. Lectr.

Cobb, J. H., M.B., Ch.B., M.B.,  
B.S. Lond., F.R.C.S., F.R.C.S.  
Ed. Lectr. (Aural Anat.).

### *Diseases, Infectious*

Williams, E. H., M.D. Brus.,  
M.R.C.S., L.R.C.P., D.P.H.  
Camb. Lectr.

### *Diseases, Mental*

Vincent, W., M.D., B.S. Durh.,  
M.R.C.S., L.R.C.P. Lectr.

### *Forensic Medicine*

Webster, J. M., M.A., M.B., Ch.B.,  
B.Sc. St. And., F.R.C.S. Ed.  
Lectr.

### *History of Medicine*

Wilkinson, G., B.A., M.B., B.C.  
Camb., F.R.C.S. Lectr.

### *Medicine*

Naish, A. E., M.A., M.D. Camb.,  
F.R.C.P. Prof.

Barnes, A. E., M.B. Lond., M.B.,  
Ch.B., F.R.C.P. Lectr.

Yates, A. G., M.A., M.D., Ch.B.  
Edin., F.R.C.P. Lectr.

Skinner, E. F., M.A., M.B., B.C.  
Camb., F.R.C.P. Lectr.

Imrie, C. G., M.D. Westn. Ont.,  
F.R.C.P. Lectr.

Platt, R., M.D., M.R.C.P. Tutor.

### *Obstetrics and Gynaecology*

Phillips, Miles H., M.B., B.S.  
Lond., F.R.C.S. Prof.

King, W. W., M.B., Ch.B. Bris.,  
F.R.C.S. Ed., M.R.C.S.,  
L.R.C.P. Lectr.

Chisholm, J., M.B., Ch.B. Edin.,  
F.R.C.S. Lectr.

Stacey, J. E., M.D., B.S. Lond.,  
M.B., Ch.B., F.R.C.S. Ed.

(Gyn. Anat.) Lectr.

Davies, G., M.B., Ch.B. Ed.,  
F.R.C.S. Ed. Tutor.

### *Ophthalmology*

Hay, Percival, M.D. Edin. Lectr.

Mackie, E. G., M.A. St. And.,  
M.B., Ch.B. Glas., D.O.M.S.

(Ophthal. Anat.) Lectr.

4 other Clin. Teachers.

*Pathology*

Florey, H. W., M.B., B.S. Adel.,  
B.A., B.Sc. Ox., M.A., Ph.D.  
Camb. Joseph Hunter Prof.

Yates, H. Blacow, M.A., M.B.  
Camb., F.R.C.S.

Lectr. (Surgical P.) and  
Asst. Cur. of Path.  
Museum.

Harding, H. E., B.A., B.M., B.Ch.  
Ox. Lectr.

Kirk, Florence S., M.B., Ch.B.  
Glas., D.P.H. Camb. Demr.

Dawbarn, R. Y., M.D. Liv., M.B.,  
B.S. Lond., M.R.C.S.,  
L.R.C.P. Demr.

Owen, T. K., M.Sc., M.B., Ch.B.,  
M.R.C.P. Demr.

*Pharmacology*

Mellanby, E., M.A., M.D. Camb.,  
F.R.C.P., F.R.S. Prof.

Harrison, D. C., B.Sc. Lond.,  
Ph.D. Camb., A.I.C. Lectr.

2 Research Assts.

*Public Health*

[Prof.]  
Rennie, J., M.D. Aberd., D.P.H.

Clark, J., M.D., Ch.B. Aberd.,  
M.R.C.P., D.P.H. Lectr.

*Radiology*

Grout, J. L. A., F.R.C.S. Ed.,  
M.R.C.S., L.R.C.P., D.M.R.E.  
Camb. Lectr.

1 Clin. Teacher.

*Surgery*

Simpson, G. S., F.R.C.S. Prof.

Cuff, A., B.A., M.B., B.C. Camb.,  
F.R.C.S. Lectr.

Finch, E. F., M.D., M.S. Lond.,  
F.R.C.S. Lectr.

Wilson, J. B. F., M.S. Lond.,  
F.R.C.S. Lectr.

Brockman, R. St. L., M.A.,  
M.Ch. Camb., F.R.C.S. Lectr.

Mouat, T. B., M.D., Ch.M. Edin.,  
F.R.C.S. (Op. Surg.) Demr.

Yates, H. B., M.A., M.B. Camb.,  
F.R.C.S. Tutor.

3 other Clin. Teachers.

*Tuberculosis*

Turner, H. M., M.D. Manc., D.P.H.  
Lectr.

*Vaccination*

Chisholm, J., M.B., Ch.B., F.R.C.S.  
Ed. Lectr.

*Anæsthetics**Instructors :*

Holroyd, J. B. H., M.R.C.S.,  
L.R.C.P.

Marshall, G. G., M.B., Ch.B.

Mart, W. D., M.R.C.S., L.R.C.P.

Birks, F. J., M.B., Ch.B.

Robertson, R. K., M.A., M.B., Ch.B.

Wiley, H. L., M.B., B.Ch.,  
M.R.C.S., L.R.C.P.

*Dentistry*

v. also Met.

Law, W. J., L.D.S., R.C.S. (D.  
Anat. and Physiol.) Lectr.

Froggatt, G. H., M.D.S., M.R.C.S.,  
L.R.C.P., L.D.S., R.C.S. (D.

Mech. and D. Surg.) Lectr.

Stokes, P. S., M.D.S., L.D.S.,  
R.C.S. (D. Surg.) Lectr.

Hull, J., L.D.S., R.C.S. (Dent.  
Surg.) Asst. Lectr.

Watson, C. T., M.D.S., L.D.S.,  
R.C.S. (Orthod. and Op. Dent.

Surg.) Lectr.

Barron, D. C., M.D., Ch.B. Edin.  
(Med. for Dent. Students)

Lectr.

Skerriitt, J. H., M.D.S., L.D.S.,  
R.C.S. (Op. Dent. Surg.)

Lectr.

Adams, J., M.B., B.Ch.

Anæsthetist.

Heald, R. H., L.D.S.

Demr. (Dent. Hist.).

2 other Clin. Dental Teachers.

*Adult Education*

Tutors : 8 members of the Staff  
and 16 others.

## AFFILIATED INSTITUTIONS

BARNSELY MINING AND TECHNICAL COLLEGE, SCUNTHORPE CENTRAL SCHOOL AND EVENING TECHNICAL SCHOOL, LINCOLN TECHNICAL COLLEGE, AND CHESTERFIELD TECHNICAL COLLEGE. Students proceeding from "Affiliated Institutions" to the Univ. to take courses for an Honours degree or Associateship in the Facs. of Engineering or Metallurgy may receive certain concessions.

## GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

**LIBRARY**, 118,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth-century tracts, plays, etc. (Sir Chas. Firth's); 352 current periodicals. Also Special Applied Science and Glass Technology departmental collections.

**RESEARCH DEPARTMENT LABORATORIES** include: *Engineering* (mech., elec., civ., and mining), with power plant, air-compressors, refrigerating plant, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, the testing of cement and concrete and for measuring earth pressures, high-speed steel tool-testing lathe, file testing machines, etc., the workshops are specially equipped for the study of modern methods of precision production; Jonas lab. specially equipped for researches in connexion with materials; Edgar Allen lab. specially equipped for electrical and magnetic research work; labs. equipped with 212-volt, 924 ampere-hour accumulator direct current and alternating current motors, phase advancers and generators for work on lighting, traction, power transmission, electricity applied to mining, electro-chemistry, apparatus for magnetic, photometric, and meter testing; high-frequency oscillographs (one 2-element Duddell, one 4-element Duddell, one Cathode Ray); wireless lab.; *Metallurgical*, with plant for experimental melting of steel, including 2-ton Siemens open hearth furnace;  $\frac{1}{2}$ -ton electric arc furnace, Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, laboratory equipped for heat treatment of steels and other metals, and equipment for thermal, micrographic, X-ray, dilatometric and other physical investigations; specially equipped lab. for electro-deposition of metals; lab. with rolling mill and draw bench for research on cold-working of steel; Non-Ferrous, equipped for the lighter Sheffield trades; *Glass Technology*, electric, gas and oil-fired furnaces for melting glass in quantities from the minute scale up to 120 lbs.; Research labs. for the physico-chemical, thermal, electrical, mechanical, spectrographic and general optical investigations on the properties of glass; *Fuel Technology*, including an experimental gas-producer, run in connexion with the steel-melting furnace of the metallurgical dept., coke-testing apparatus, and specially equipped labs. for research on coal, coke, and gaseous explosions; *Mining*, research labs. for coal and ore treatment, ventilation, mine lighting, machine mining, and mine safety problems.

**OBSERVATORY** with 6 $\frac{1}{2}$ " equatorial telescope and 2 $\frac{3}{4}$ " transit instrument.

HOSPITALS available for clinics include 2 general (840 beds), 3 special (1226 beds), and Mental Hospital (1900 beds).

**FACULTIES.** (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Dept.), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous and Non-Ferrous). *Deans:* (1) Prof. Turnbull (Educn.), (2) Prof. Fearnside (Geol.), (3) Prof. Leathes (Physiol.), (4) Prof. Trotter (Law), (5) Prof. F. C. Lea (Mech. Engin.), (6) Prof. Andrew (Metall.). There is a Univ. Training Coll. Dept. for Teachers for elementary and secondary schools. *Dept. of Glass Technology:* The Dept. was the first and still remains the best known of the scientific instns. devoted to the study of glass. It possesses glass melting shops for the melting of glass in quantity from a few grams to 120 lbs. in electrical and gas-heated furnaces and a number of separate research labs. devoted to the study of the chemical, thermal, electrical, optical, and mechanical properties of glass. *Faculty of Metallurgy:* The courses in Metallurgy include, in addition to the ordinary subjects of a metallurgical training, special instruction in the magnetic properties of iron and steel, and practice in the use of semi-large-scale plant. Post-graduate courses are arranged for graduates in Pure Science or in Metallurgy.

**ADMISSION.** See Appendix XXII.

**DEGREE COURSES.** 3 yrs.—B.A. (with Honours in Archt.—5 yrs., including time spent in an Architect's office), B.Mus., B.Sc., LL.B., B.Met. (3 yrs.' evening courses may under certain conditions be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.), B.Sc.Tech. ("Sandwich" course 4 yrs.); B.Eng. Honours and B.Sc.Tech. Honours, 3 yrs. after passing Intermed. Examn.; 5½ yrs. (including 3 in the Univ.)—M.B., Ch.B.; 5½ years—B.D.S. Graduates of a Univ. of the U.K. who wish to qualify for B.A. or B.Sc. with Hons., or LL.B., need, under certain conditions, only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved instn. Graduates of a Univ. of the British Empire who wish to qualify for B.Met., B.Eng., or B.Sc.Tech. with Honours need, under certain conditions, only attend courses for 2 years (for B.Eng. or B.Sc.Tech. pass degree, one year; B.Met. pass degree, 2 yrs.) if they have pursued a course for 2 years at some approved institution.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, Poitiers, Leipsic, Freiburg, Göttingen, Tübingen, and Giessen have been recognized in the Faculty of Arts, and the Univ. contributes towards expenses of undergraduates spending a term there.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

**HIGHER DEGREES.** Obtainable by Bachelors of 1 yr.'s standing—M.A., M.Sc., LL.M., M.Eng., M.Sc.Tech., M.Met., M.D.S.; 3 yrs.—M.D., Ch.M.; 5 yrs.—Litt.D., D.Sc., LL.D., D.Eng., D.Sc.Tech., D.Met.; open under certain conditions to graduates in Arts of any Univ. of the U.K. after 2 yrs., to graduates of Facs. other than Arts after 3 yrs., of advanced study or research in Sheffield—M.A.; open, under certain conditions, to graduates in Science of any Univ. of the U.K. after 2 yrs. of advanced study or research in Sheffield—M.Sc.; open, under certain conditions, to graduates in Science or Engin. of any Univ. in U.K. after 2 yrs. of advanced study or research in the Univ. of Sheffield—M.Eng., M.Sc.Tech.; Ph.D., v. p. 14.

**DIPLOMAS.** Archt., 5 yrs. (including time spent in an Architect's office);

Mod. Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course; Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.), Associateship in Iron and Steel or Non-Ferrous Met., 3 yrs. (evening students, 4 yrs.); Mining, 3 yrs.' full-time course or 4 yrs.' "Sandwich" course (1st year, full-time at the Univ., Oct. to June inclusive; other years 6 mos. in Colliery and 6 in Univ.; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certifi. after 5 yrs. and 3 mos. total training, including the time spent in the Univ.); Fuel, 4 yrs. (for those with 1 yr.'s experience in a Works Fuel Dept., 3 yrs.); exemption from first yr. in special cases. Associateship in Fuel for Evening Students, 4 yrs.

*Certificates in Architecture* (3 yrs.); *Works Pupils in Engin.* (3 yrs.); *Glass Technology* (3 yrs., Saturday or Evening Students).

**FEES.** Matricn. £2. Regstrn. 2rs. p.a. (Diploma courses, except L.D.S.) or 25s. p.a. Degree courses (except M.B., Ch.B., and B.D.S.). Tuition for degree courses (approximate): B.A. and B.Mus., £26:13:4 p.a.; B.Sc., £35 p.a.; LL.B., 11 gs. p.a.; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), £41:10s. p.a.; "Sandwich" course for B.Eng., 4 yrs., £31:5s. p.a.; M.B., Ch.B., £238 for 5½ yrs.' course, including hospi. fees; B.D.S., £250 for 5 yrs.' course, including Mech. Dent. Examns., Intern., £2; Final, Pass Degree, £2; Honours, £3 (M.B., Ch.B. or B.D.S. examns., £6 each of 3). Bachelor's Degree Fee, £6 (except M.B., Ch.B., £1).

*Note.* To students from outside the British Empire an additional 20 per cent is charged on all fees.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Sorby Research Fellowship (administered by Royal Society), v. App. XXIII. 17; Ironmongers. Company Research Fellowship and Research Scholarships, v. App. XXIII. 4; Alfred Tongue Scholp., £100 for 1 yr. for research in Engin., Met., or Chem.; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; 4 Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals; Cutlers' Company Scholp., £100 p.a. for 2 yrs.; 2 Glass Research Fellowships, £175 and £200; Mechanics Institute Scholp., £50 p.a. for 1 yr., together with fees for courses taken by the holder, for research in one of the Depts. of the Univ.; Frederick Clifford Scholp., £50 p.a. for 2 yrs., for research in one of the Depts. of the Univ.; Ezra Hounsfield Linley Post-graduate Scholp., £75 to £100 p.a. for 1 yr., for research in Engin. or Met. or Physics or Chem.; Town Trustees Fellowship, £75 p.a. for 1 yr., for research in one of the Depts. of the Univ.

Herbert Hughes *Travelling Scholarships* in Spanish, £25 each, are for one month of Study in Spain during the long vacation.

*Note.* The number and value of Scholarships and Fellowships are liable to reduction in all cases.

**RESIDENCE, ETC.** Stephenson Hall, for men; fees per session, £90. Univ. Halls for women, Oakholme, Tapton Cliffe, and Endcliffe House, £55 to £76 per session. A list is maintained of Lodgings supervised by a Special Committee; board and lodging cost from 27s. 6d. to 40s. per week. Athletics ground, 18 acres. The Union Rep. Council takes a leading part in the Social life of the Univ. Separate Students' Unions for men and women.

**APPOINTMENTS BOARD.** Secretary: J. R. Clarke, M.Sc., F.Inst.P.

There is an OLD STUDENTS' assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Education Lectures) with the Sheffield Education Committee.

Evening Classes in Mechanical Engineering, in General Science, Engineering Metallurgy, Mining, Fuel, and Glass Technology, Building and Manual Training are held during the 6 months Oct. to April, and Trades Technical Classes are held in association with the Sheffield Trades Technical Societies. 41 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying degrees, etc., v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in French, Russian, Spanish, German Philosophy, Econ., Secretarial Practice, Accountancy, Law, and Architecture.

PUBLICATIONS. *Calendar* (Oct.), 5s.; *The Arrows*, a Chronicle published on each term, annual subscription, 1s. 6d.; Annual Report in Nov.; Faculty and Training Coll. Prospectuses; Scholarships pamphlet.

## THE YEAR 1931-32

BENEFACTIONS. Emer. Prof. Arthur Hall, to form a nucleus of a fund to be known as the "University Research Fund," a gift of £550, the proceeds of a donation made to him on his retirement. £17,538 received from the Trust of the estate of the late Mr. George Denton, for many years a member of Univ. Council, the balance of a bequest amounting to £27,438. A legacy £3020 from the late Mr. Edward Holmes. The Institution of Mechanical Engineers a further grant of £50 to the Prof. of Mechanical Engin. for research work.

NEW BUILDINGS. The new building for the Mining Dept. opened.

NEW POSTS. Chairs in Botany, Geology, and Bacteriology. Two lectureships in Bacteriology. A lectureship in Real Property and Conveyancing. A lectureship in Gas Engineering.

ORDINANCES AND REGULATIONS. Ordinances and Regulations for a Diploma in Public Administration and an Honorary School of Latin and English. Ordinances for *agrotal degrees* under certain conditions. The Ordinances for the Degree Ph.D. altered to enable members of the teaching staff of the University to become under certain conditions, candidates for the Degree. Ordinances making concessions to ex-service men rescinded.

EXTRA-MURAL WORK. 62 Tutorial Classes and 14 Extension Courses were held.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. The following lectures were given: Rev. Canon L. W. Grensted, Univ. of Oxford, a course of lectures on *Psychology*. Prof. R. M. McElroy, Univ. of Oxford, on *Some Aspects of American Declaration of Independence*. Prof. Daniel Jones, Univ. of London, on *Phonetics and the Teaching of Modern Languages*. Prof. L. A. Willoughby, Univ. of London, on *Goethe after a Century*. Prof. H. J. Fleure, Univ. of Manchester, on *An Introduction to Race Study*. Prof. H. J. C. Grierson, Univ. of Edinburgh, on *Thomas Carlyle*. Prof. F. Baldensperger, Univ. of Paris, on *Une Crise romaine: Balzac ou Proust*.

VISITS OF MEMBERS OF THE STAFF TO OTHER UNIVERSITIES. Prof. E. Forster gave 24 lectures on *The Archaeological History of Greece*, at the University of Manchester. Prof. Fearnside lectured on *The Geology of the Peak of Derbyshire* at Univ. Coll., London. Prof. G. M. Bennett lectured on *Recent Advances in the Stereochemistry of Sulphur* to the Birmingham Univ. Chemical Society, on *Growing Chain Effects* to the Chemical Society, King's Coll., London. Dr. A.

Chapman lectured on *Some Aspects of Isomeric Change* to the Oxford Univ. Alembic Club. Mr. J. G. Boswell lectured on *Wood-rot Fungi* to the Liverpool Univ. Botanical Society. Prof. E. Mellanby lectured on *Some Vitamin Investigations in Relation to Medicine* to the Faculty of Medicine, Durham Univ. Mrs. E. Mellanby lectured on *Diet and the Teeth* at Royal Holloway Coll. Prof. R. V. Wheeler lectured on *The Constitution of Coal* at West Virginia Univ., Morgantown, U.S.A. Prof. W. E. S. Turner lectured on *Mechanical Methods in Modern Glass Manufacture* to the Cambridge Univ. Engineering and Aeronautical Soc.

DEATH. Sir William Clegg, Pro-Chancellor.

RESIGNATIONS. Mr. C. T. Slocombe (Maths.); Dr. Iris Moody (Bacteriol.); Dr. A. F. Watson (Cancer Research Asst.); Mrs. Harrison, Dr. Morrell Roberts (Pharmacol.); Mr. F. Winks (Glass Technol.); Dr. J. T. Howarth (Glass Technol.); Mr. J. H. Wreaks (Metall.).

HONORARY DEGREES. LL.D.—The Rt. Hon. Viscount Chelmsford, Mr. W. Benton Jones. D.Eng.—Mr. J. H. W. Laverick.

STUDENTS. Full-time: total, 744, including 127 graduates. Part-time: total, 1681, including 17 graduates.

DEGREES OBTAINED. Ph.D., 5; M.A., 37; M.Sc., 16; Ch.M., 1; LL.M., 6; M.Eng., 5; M.Sc.Tech., 2; M.Met., 2; B.A., 53; B.Sc., 56; M.B., Ch.B., 7; LL.B., 7; B.Eng., 32; B.Sc.Tech., 2; B.Met., 3.

# UNIVERSITY OF WALES, CARDIFF

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRO-CHANCELLOR—The Hon. W. N. BRUCE, C.B., LL.D.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1933, Principal C. A. EDWARDS, D.Sc., F.R.S., University Coll. of Swansea, thereafter Principal D. EMRYS EVANS, M.A., B.Litt., University College of North Wales.

WARDEN OF THE GUILD OF GRADUATES—The Rev. Principal J. MORGAN JONES, M.A.

DEAN OF DIVINITY—Rev. Prof. JOSEPH JONES, M.A., B.D.

REPRESENTATIVE IN PARLIAMENT—ERNEST EVANS, B.A., LL.B.

REGISTRAR—D. BRYNMOR ANTHONY, M.C., M.A., University Registry, Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

## SCHOOL OF THE UNIVERSITY

THE WELSH NATIONAL SCHOOL OF MEDICINE.

## ASSOCIATED THEOLOGICAL COLLEGES

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth*: Principal—Rev. H. Harris Hughes, B.A., B.D., Prof. of *Christian Doctrine and Ethics of Religion*. Other Profs.: Rev. J. Y. Evans, M.A., B.D., *Church Hist.*; W. Porter, M.A., D.Litt., *Hebrew and O.T. Exegesis*; Rev. W. R. Williams, M.A., *New T. Greek*; Rev. W. D. Davies, M.A., B.D., *Philosophy and History of Religion*. At *Bala*: Principal—Rev. David Phillips, M.A.; Rev. Prof. G. A. Edwards, M.A., *Past. Theol.*

BANGOR, The Baptist and Congregational Jt. School of Univ. Theol. Studies. Rev. Principal J. T. Evans, M.A., B.D., *Hebrew and O.T. Exegesis*; Rev. Principal J. M. Jones, M.A., *Ch. Hist.*; Professors: Rev. J. Gwili Jenkins, M.A., D.Litt., *N.T. Greek*; Rev. J. E. Daniel, M.A., *Christ. Doct.*, *Phil. of Religion*.

BRECON, The Memorial Coll. Principal—Rev. T. Lewis, M.A., B.D., *Hebrew and O.T. Exegesis*. Other Profs.: Rev. D. M. Edwards, M.A., D.D., *Christian Doctrine and Philosophy of Religion*; Rev. Jos. Jones, M.A., B.D., *N.T. Greek*; Rev. John Evans, B.A., *Ch. Hist.*

CARDIFF, The S. Wales Baptist Coll. Principal—Rev. T. Phillips, B.A., Hon. D.D., *Christian Doctrine and Philos. of Religion*. Profs.: Rev. T. W. Chance, M.A., B.D., *Ch. Hist.*; Rev. J. Griffiths, M.A., B.D., *N.T. Greek and Exegesis*.



CARMARTHEN, The Presb. Coll. Principal—Rev. J. Park Davies, M.A., B.D., *Hebrew and Old T. Exegesis*. Other Lectrs.: Rev. M. B. Owen, B.A., B.D., *Ch. Hist.*; Rev. J. O. Stephens, B.A., B.D., *Christian Doctrine and Phil. of Religion*; Rev. Emrys Jones, B.A., B.D., B.Litt., *New T. Greek*.

## GENERAL INFORMATION

The Univ. was founded by Charter, 1893. As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes. For outline of changes, see *Yearbook*, 1929. A further Supplemental Charter was granted in 1932 providing *inter alia* for the institution of the Welsh National School of Medicine as a School of the Univ., and for the recognition of Schools of Theology at the Collegiate centres. The teaching for initial degrees is undertaken by the constituent and associated Colleges and by the Welsh National School of Medicine, and matriculation in the Univ. is open only to students of those institutions: in the case of an associated Theological College, only to students who are graduates of an approved University. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and of the School of Med. and conducts the final exams. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

ADMISSION. See Appendix XXII.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Tech.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., LL.D.; M.B., B.Ch., M.D., M.Ch.; B.D., D.D.; Ph.D.

For a first degree 3 yrs. of study are required; in Technology 1 yr. in an approved technological institution. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ., the period of qualification is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate; study is pursued in one of the Associated Theol. Colls. (v. *supra*) or at the School of Theol. of the University Coll. of N. Wales, Bangor. Study for an Honours degree in Arts, Science, Music, or Law ordinarily covers 4 years. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 14.

*Diplomas* in Educn. (post-grad. Diploma); Public Health (D.P.H.); Tuberculous Diseases (T.D.D.); in Agric. Sci. and in Forestry.

FEEs: Matricn., £3; exams. qualifying for Bachelor degree, from £6:15s.; Master, £8; Ph.D., £12; higher Doctorates, £20.

POST-GRADUATE SCHOLARSHIPS, ETC. The Univ. has funds amounting to over £5000 p.a., including the income of a capital sum of £20,000 given by the late Dr. Samuel Williams of Llanelly, Carms., for the encouragement of research. In addition to 6 Fellowships (annual value £200 each), one of which is Dr. Samuel Williams Fellowship, tenable for 2 yrs., it awards 12 or more studentships, 8 of which named Dr. Samuel Williams Studentships, on the nomination of the Colls. to students who after graduation engage in work preparatory to research for 2 yrs. Grants to assist research into Welsh lan-

guage, institutions, etc., are made, preferably to members of the Univ., from the T. Ellys Memorial Fund (capital £1574). See also Appendix XXIII. 16.

**PRIZES.** *The Roberts Welsh Reading Prize* (bound books value £3:3s.); *The Sir Samuel Evans Prize* (c. £40) for the most proficient student in the Hons. examns. in Law; *The Prince Llywelyn ap Gruffydd Memorial Prize* (a bronze medal and bound books value £2:10s.) for the best M.A. dissertation on a subject relating to the hist. of Wales or the Welsh Marches; *The Brough Prize in Logic and Psychology* (about £40) for the best M.A. dissertation on a subject within the province of Logic or Psychol.; *The John Maclean Prize* (silver medal and bound books, value £2:10s.) for the most proficient student in the degree examns. in Obstetr. and Gynæcol.; *The Willie Seager Prizes* in Medicine, Surgery, and Pathology and Bacteriology (a gold medal and books value £4), for the most proficient students in the degree examns. in Med., Surg., and Pathol., and Bacteriol. respectively; *The Hywel Dda Prize* (£20) awarded to the person who has by work published within the preceding 5 calendar yrs. done most to advance the study of ancient Welsh law and custom, or thrown most light upon its origins and history; *The Sir Ellys Griffith Memorial Prize* (books value £5 and a money prize of £10), awarded to the person who has by work published within the preceding 3 calendar yrs. produced the best work dealing with Welsh Lit., the arts and crafts of Wales, or with artistic work produced by Welshmen.

**PUBLICATIONS:** *Calendar* (Oct.), 4s. 6d. post free. Courses in Div. and in Mus., and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d. Degree Papers: Arts, 6s., Science, 5s., Medicine, 1s., Theology, 9d. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. The best account of the early history of the Univ. is in *The University of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co.). The introduction to the Report of the Royal Commission on Univ. Education in Wales, 1918, 1s., contains a valuable summary of the history of the University up to 1918.

## THE YEAR 1931-32

**RECENT DEVELOPMENTS.** A Supplemental Charter was granted by H.M. the King on Nov. 27, 1931, providing for the institution of the Welsh National School of Medicine as a School of the Univ., and for the recognition of Schools of Theology at the Collegiate centres. The Welsh National School of Medicine began to function as an independent School on July 1, 1931. A new grade of Univ. teacher instituted, with the title of Reader. Amended regulations for the Univ. Diploma in Education approved. The Univ. Registry has been extended. The office of the Council of Music is now located in the Univ. Registry.

**RETIREMENTS.** Prof. J. Gibson (Philos.), Univ. Coll. of N. Wales; Prof. W. Jenkyn Jones (Philos.), Univ. Coll. of Wales, Aberystwyth; Prof. W. Phillips (Educn.), Univ. Coll. of S. Wales and Mon.; Prof. Sir Ewen J. Maclean (Obstet. and Gynæcol.), Welsh Nat. Sch. of Medicine.

**RESIGNATIONS.** Prof. J. F. Mountford (Latin), Univ. Coll. of Wales, Aberystwyth, on appt. to Liverpool Univ. Prof. C. K. Webster (Internatl. Politics), Univ. Coll. of Wales, Aberystwyth, on appt. to the London Sch. of Econ.

**HONORARY DEGREES.** *M.A.*—Mr. Richard Bennett, Mr. Wilfrid J. Hemp, Mr. Robert Owen. *D.D.*—Rev. Hywel Cernyw Williams. *LL.D.*—The Rt.

Hon. Lord Atkin of Aberdovey, Mr John M. Mitchell, Dr. Albert H. Trow.  
*D.Litt.*.—Mr. John Masefield, Prof. H. Pedersen.

STUDENTS. Full-time : total, 3122 ; graduates pursuing additional initial degree courses, 136, graduates engaged in research work, 131, graduates pursuing courses of training in Education, 235 ; undergraduates preparing for first degree, 2271 ; other full-time students, 349. Part-time students, 320.

DEGREES. B.A., 301 ; B.Sc., 193 ; B.Mus., 4 ; LL.B., 10 ; M.B., B.Ch., 7 ; B.D., 10, M.A., 36 ; M.Sc., 38 ; Ph.D., 12, D.Sc., 4 ; M.D., 3.

## UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—  
The Rt Hon LORD DAVIES, M A , LL.D.

VICE-PRESIDENTS—The Rt. Hon. the EARL OF LISBURNE ; D. C.  
ROBERTS, Esq., J.P.

PRINCIPAL—H. STUART JONES, M.A., D Litt., F.B.A.

VICE-PRINCIPAL—Prof. G. A. SCHOTT, D.Sc., F.R.S.

SECRETARY—E. B. HICKS, A.S.A.A.

ACADEMIC SECRETARY—G J. WALKER.

LIBRARIAN—ARTHUR AP GWYNN, M.A.

### PROFESSORS, LECTURERS, ETC.

*Agriculture*, v. *infra*

*Arabic*, v. Hebrew

*Botany*

Newton, Mrs. L., Ph.D. Prof.

Chater, E. H., B Sc Lond., M.Sc.

Lectr. & Demr.

Carter, P. W., M.Sc. Asst. Lectr.

Hubbard, Madeline, B.Sc. Lond.

Demr.

*Celtic Philol. and Palæog.*

Lewis, Timothy, B.A., M A.

Manc. Reader.

*Chemistry*

[Prof.]

James, T. C , M.A. Camb., D.Sc.

Senr. Lectrs. :

Bury, C. R., B.A , B.Sc. Ox.

Hudleston, L. J., B.Sc. Lond.

Asst. Lectr. & Demr. :

Williams, D. Matthew, Ph.D.

Davies, D. G., Ph.D. Pt.-time Asst.

*Classics*

Wood, E. J , M.A. Aberd. and

Camb. (Latin) Prof.

Jenkins, E. D. T., M.A. Ox.

(Greek) Indept. Lectr.

Bensly, E., M.A. Camb.

(Med. and Renaissance  
Latin) Spl. Lectr.

Baillie-Reynolds, P. K., M.A. Ox.  
(Ancient Hist.) Lectr.

Asst. Lectr. :

Duff, A M., M A., B.Litt. Ox.

*Economics and Pol. Science*, v.  
also Politics

Forrester, R. B., M.A. Ed.,

M.Com. Manc. Prof.

George, Percy, M A , M Sc. Lectr.

Morris, J , B Sc. Lond. Asst. Lectr.

Bowley, Marian E. A., B.Sc.

Temp. Asst. Lectr.

*Education*

Chapple, C. R., M.A. Lond. Prof.

Roberts, Dorothy E., M.A. Lectr.

Pinsent, A., M.A. Lond., B.Sc.

Lectr.

Lectrs. :

Jones, Gwenan, M.A., Ph.D. Minn.

Green, G. H., M.A., B.Sc., Ph.D.

Lond., B.Litt. Ox.

Asst. Lectrs. :

Edwards, Ifan ab O., M.A.

Creed, Rachel M., M.A. Ox.

Bassett, F.

Pt.-time Asst.

Jones, Dan R., M.A., A.R.C.A.,

A.M.C.

Art Master.

3 Instrs. in Physical Training and  
in Needlework.

*English Language and Lit.*

Atkins, J. W. H., M.A. Camb. and  
 Lond. Rendel Prof.

Winstanley, Lillian, M.A. Manc.  
 Sr. Lectr.

Palmer, J. L., B.A. Camb.

Earnshaw, J., M.A. Manc.  
 Asst. Lectrs.

*French Lang. and Lit. and  
 Romance Philol.*

Barbier, J. L. A., L. ès L. Paris  
 Prof

Thomas, A. B., D. de l'U. Lyon,  
 M.A. (Phonetics) Sr. Lectr.

Phillips, Eva M., M.A. Lectr.  
 Delemar, V. Pt-time Asst.

*Geography and Anthropology, v.  
 also Ocean.*

Forde, C. D., B.A., Ph.D. Lond.  
 Prof.

Whitehouse, W. E., M.Sc.  
 (Geog.) Special Lectr.

Bowen, E. G., M.A. Asst. Lectr.  
 Fogg, W., M.A. Manc. Asst. Lectr.

*Geology*

Lewis, H. P., M.A., Camb. Prof.  
 Challinor, J., M.A. Camb. Lectr.

Platt, J. I., M.Sc. Manc. Lectr.

*German*

Evans, David, M.A. Indpt. Lectr.  
 Rees, Hermia, M.A. Asst. Lectr.

Schenk, L., Ph.D. Pt-time Asst.  
 Edwards, Handel, B.A.

Pt-time Asst.

*Hebrew and Arabic*

..... Prof.

*History, v. also Classics*

Trehearne, R. F., M.A., Ph.D.  
 Manc. Prof.

Herbert, Sydney, M.A.  
 (Mod. Hist.) Lectr.

*History, Colonial*

Roberts, T. Stanley, M.A. Camb. [Prof.]

*History, Welsh*

Lewis, E. A., D.Sc. Lond., M.A.,  
 D.Litt.

Sir John Williams Prof.

*Law, English*

Levi, T. A., M.A., B.C.L. Ox.,  
 LL.B. Lond. Prof.

*Spl. Lectrs. :*

Evans, J. Victor, M.A. Ox.

Wing, R. A., B.A., LL.B. Camb.

Lewis, Vyrnwy J., B.A., LL.B.  
 Wales and Lond. Asst. Lectr.

*Logic and Philosophy*

Aaron, R. I., D.Phil. Ox., M.A.  
 Prof.

Davies, Dan, Ph.D. Glas., M.A.  
 Asst. Lectr.

*Mathematics, Applied*

Schott, G. A., B.A. Camb., D.Sc.  
 Lond., F.R.S. Prof.

Sutton, W. G. L., M.A. Ox. Lectr.  
 Lewis, Thos., M.Sc. Asst. Lectr.

*Mathematics, Pure*

Morton, V. C., M.A. Ox.  
 Indpt. Lectr.

Sutton, W. G. L., M.A. Lectr.  
 Williams, D. R., Ph.D. Stras., M.A.

Asst. Lectr.

*Music*

de Lloyd, David, Mus.D. Dub.,  
 B.A., Mus.B. Prof.

Clements, Charles, B.Mus.,  
 F.R.C.O. Asst. Lectr.

7 Assts.

*Oceanography*

Jenkins, J. Travis, D.Sc. Lond.,  
 Ph.D. Kiel, D.Sc. Hon. Lectr.

*Palæography*

Lewis, Prof. E. A. Lectr.

*Philosophy, v. Logic**Physics*

Owen, Gwilym, M.A. Camb., M.Sc.  
 Manc., D.Sc. Liv. Prof.

Asst. Lectrs. & Demrs. :

Davies, R. M., M.Sc.

Jones, I. C., M.Sc.

Stephens, E., M.Sc., Ph.D.

*Politics, Internat.*

Greene, J. D., M.A. Harv.  
 Wilson Prof.

Asst. Lectrs. (Part-time):  
Vranek, J. F., Ph.D. Prague  
Vranek, Mrs. L. F., B.Sc. (Econ.)  
London.

*Welsh* [Prof.  
Parry-Williams, T. H., M.A. Wales,  
B.Litt. Ox., Ph.D. Freib.  
Jones, D. J. Gwenallt, M.A.

Asst. Lectr.  
*Welsh History*, v. History, Welsh  
*Welsh Literature*  
Jones, T. Gwynn, M.A. Prof.

*Zoology*, v. also Ocean.  
Laurie, R. D., M.A. Ox. Prof.  
Watkin, E. E., Ph.D. Lectr.  
Rees, Florence G., Ph.D.

Asst. Lectr.  
Jenkins, J. R. W., M.Sc.  
Spl. Lectr. in Entomology.

#### Agriculture

Griffith, J. J., B.Sc. Prof.  
Phillips, R., M.Sc. Lectr.

#### *Agric. Botany*

Stapledon, R. G., C.B.E., M.A.  
Camb. Prof.  
Sampson, Kathleen, M.Sc. Lond.  
Lectr.

Poulter, Annie A., B.Sc. Reading  
Asst. Lectr.

#### *Agric. Chemistry*

Fagan, T. W., M.A. Camb., F.I.C.  
Prof. and Advisory Chemist.  
Davies, R. O., M.Sc. Lectr.

#### *Agric. Economics*

Ashby, A. W., M.A. Ox.  
Prof. and Adviser.  
Howell, J. Pryse, M.Sc.

Asst. Adviser.  
Jones, W. H., B.Sc. Technl. Asst.

#### Marketing Assts.:

Davies, J. Llefelys, M.Sc.  
Williams, J. Glynne, M.S. Wisc.,  
B.Sc.

#### *Agric. Zoology*, v. *Zool. infra*

Advisory Dairy Bacteriologist:  
S. B. Thomas, M.Sc.

Advisory Entomologist:  
J. R. W. Jenkins.

Advisory Mycologist:  
D. W. Davies, B.Sc.

Instructors in: Dairying, Vet.  
Hyg., Land Surveying, Agric.  
Book-keeping and Agric.  
Engin.

#### Plant Breeding Station

Stapledon, Prof. R. G., C.B.E.,  
M.A. Camb. Director.

#### Investigators:

Jenkin, T. J., M.Sc.  
Williams, R. D., M.Sc.  
Jones, E. T., M.Sc.  
Jones, L. I., B.Sc.  
Davies, Wm., M.Sc.  
Evans, Gwilym, B.Sc.

Plant Physiologist:  
H. G. Chippendale, M.Sc. Manc.

Grassland Adviser:  
M. T. Thomas, B.Sc.

#### Assts.:

Beddows, A. R., M.Sc.  
Milton, W. E. J., N.D.A.  
Jones, T. E., N.D.A.  
Silow, R. A., B.Sc. Reading, M.Sc.  
9 County Organizers.

#### University Extension

Morgan, Herbert, M.A. Ox., B.A.  
Director of Extra-mural Studies.

#### Residential Tutors:

Lewis, D. Hughes, B.A.  
Griffiths, T. Hughes, M.A.  
Jones, T. Hughes, M.A.  
23 Tutors.

## GENERAL INFORMATION

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

**LIBRARIES.** College, 70,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, 420,000 vols., rich in Welsh and other Celtic books and MSS. **MUSEUMS:** Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Crafts. The Chemistry **LABORATORIES**, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

**FACULTIES.** Arts, Science, Rural Sci., Law, Music. *Departments:* Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Phonetics. A special feature is the ample provision for instruction and research in Agriculture.

Courses in Arts, Science, Rural Sci., Law, Music, for Degrees of the Univ. of Wales.

*College Diploma* courses: Agric., 3 yrs.; Dairying, 2 yrs.; Music, 2 yrs.; Geography, 1 yr.; Biology, 1 yr.; Art, 1 yr.; Handicraft, 1 yr.; Social Hygiene, 1 yr.

Courses in Science meet the requirements of the first year of Medical study and the examns. of the Pharmaceutical Society.

Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

**RESEARCH** work is systematically carried on in Agric. Botany and Agric. Chem. (whole-time Research Botanist, Chemist, Entomologist, Mycologist, and Dairy Bacteriologist), Chem., Geol., Geog., Physics, Zool., English, Welsh, Welsh History, Philos., Maths., Economics, History.

**FEES** for tuition in Arts, £15 per session; Science, £20; Registration, £1; Research students, 6 to 10 gs.

**SCHOLARSHIPS FOR GRADUATES.** 5 for Research, value £25 to £150, open to students of the College. *See also* under Univ. **TRAVELLING SCHOLARSHIPS** for visiting Continental institutions, total, £500. Grant varies according to expenses incurred. **RESEARCH STUDENTSHIP.** £200 in Dept. of International Politics. Sir John Williams Research Studentships for Welsh Studies.

**RESIDENCE.** Board and lodging at Women Hostels: 50 to 62 gs. per session. Accommodation in Hostels for 300 women.

A **MEDICAL SCHEME** is compulsory on all full-time men and women students on payment of a capitation fee of 10s. per session.

**UNIVERSITY EXTENSION.** Local lectures and short courses in Agric. subjects; Travelling Dairy School; Tutorial Classes in Econ., Lit., Hist., Welsh, Psychology, etc.; Summer School annually in Aug. The Advisory Staff of the Dept. of Agric. give advice to farmers and fruit growers.

**AFFILIATION.** The Coll. is recognized by Ox. and Camb., and by Edin. and N.U.I., by the R.C.P. and S. Eng. and the R.C.S.I., the F.P. & S. Glas., the R.C.P.I. and the R.C.S.I., the Inst. Chem., and the Surveyors' Instn.

**PUBLICATIONS:** *Prospectus* (Oct.); *Reports* (Jan.), 1s. 6d.; *Aberystwyth Studies*; Students' Magazine, *The Dragon*; Inaugural Lectures.

## THE YEAR 1931-32

**BENEFACTIONS.** For the Plant Breeding Station—Imperial Chemical Industries, Ltd., £150, Sir Ernest Debenham, £100, the Dinam Charity, £100, Mr. D. Owen Evans, £100, The Davis Bryan Trustees, £100, Mr. S. M. Bligh, £50, Mr. J. P. Morgan, £50; Mr. J. Davies Bryan, Music Scholarship, £25; His Grace the Duke of Westminster, £13; other gifts, £70.

PUBLIC LECTURES were delivered by the Very Rev. W. Ralph Inge, Prof. R. S. Conway, Prof. C. K. Webster, Prof. R. B. Forrester, Dr. F. W. Aston, the Rt. Hon. Sir Austen Chamberlain.

TRAVELLING SCHOLARSHIP FUND. About 42 awards, amounting to upwards of £500, were made to students and Members of Staff to enable them to visit Continental countries during the Easter and Summer Vacations.

VISITS OF TEACHERS. The following members of the Staff lectured at other Colls. of the Univ.—Prof. J. F. Mountford (Latin); Prof. C. K. Webster (Int. Politics); Prof. T. Gwynn Jones (Welsh Lit.); A. Pinsent (Educ.); S. Herbert (Hist.); and members of other Colls. of the Univ. lectured at this Coll.—Prof. R. C. M'Lean (Botany); Ifor Williams (Welsh); Edna Purdie (German).

RESIGNATIONS. Vice-Principal E. Edwards; Prof. W. Jenkyn Jones (Philos.); Prof. J. F. Mountford (Latin), appointed Prof. of Latin, Univ. of Liverpool; Prof. C. K. Webster (Internat. Politics), appointed Prof. of Internat. Hist., Univ. of London; Miss M. G. Rowlands (Education); J. D. Williams (Librarian); F. Bassett (Education); C. G. Dobbs (Botany).

STUDENTS. Full-time, 774; graduates, 25; preparing for first degree, 625; other full-time, 124. Part-time and occasional, 27. Pre-matriculation, 45. Extra-mural, 714.

DEGREES OBTAINED. B.A., 105; B.Sc., 69; LL.B., 10; M.A., 14; Ph.D., 4; M.Sc., 9.



# UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT—The Rt. Hon. LORD GLADSTONE OF HAWARDEN.

CHAIRMAN OF THE COUNCIL—H. R. DAVIES, M.A., LL.D., J.P.

PRINCIPAL—D. EMRYS EVANS, M.A., B.Litt.

SECRETARY AND REGISTRAR—W. P. WHELDON, D.S.O., M.A., LL.B.

LIBRARIAN—T. RICHARDS, M.A., D.Litt.

WARDEN OF THE WOMEN STUDENTS—MURIEL ORLIDGE DAVIS.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture*

White, R. G., M.Sc. Leeds Prof.

Roberts, E. Jones, M.A., M.Sc.

Lectr.

Montgomerie, R. F., B.Sc.,

Ph.D., F.R.C.V.S.

Vet. Advisory Officer.

Rowlands, W. T., M.R.C.V.S.

Asst. Vet. Adviser.

Ashby, A. W., M.A.

Spl. Lectr. in Ag. Econ.

Hickson, Miss P.

Dairy Bacteriologist.

Currie, J. F.

Supervisor of Seed Potato Scheme.

Lectrs. in Bldg. Constn., Book-keeping, Vet. Hygiene.

County Staffs: 5 Organizers, Instructors in Cheesemaking, Dairying, Horticulture and Poultry-keeping.

### *Agric. Botany* [Indpt. Lectr.

Roberts, R. Alun, Ph.D.

Whitehead, T., M.Sc., Ph.D., A.R.C.S.

Adviser in Plant Pathology.

### *Agric. Chemistry* [Prof.

Robinson, G. W., M.A. Camb.

McLean, W., B.A., B.Sc.,

A.R.C.S.I., A.I.C. Lectr.

Williams, Rice, M.Sc. Asst. Lectr.

3 Res. Assts.

### *Agric. Entomology* [Adviser.

Davies, W. Maldwyn, Ph.D. Lond.

### *Applied Electricity and Hydro-Electric Engineering*

Williams, W. E., B.Sc.

Indpt. Lectr.

Marriott, E. N., M.Eng. Shef.

Asst. Lectr.

### *Botany*

Thoday, D., M.A. Camb. Prof.

Davey, A. Jane, M.Sc. Lond.

Lectr

Woodhead, N., M.Sc. Manc.

Asst. Lectr.

### *Chemistry*

Simonsen, J. L., D.Sc. Manc., F.R.S., F.I.C. Prof.

Bradfield, A. E., Ph.D. Lectr.

Soper, F. G., D.Sc., A.I.C.

Lectr. in Physical C.

Asst. Lectr. & Demr. :

Cahn, R. S., M.A. Camb., Ph.D.

Frankf., A.I.C.

### *Classics*, v. also Theol.

Hudson-Williams, T., M.A., D.Lit. Lond. (Greek) Prof.

Thomson, H. J., M.A., D.Litt. St. And. (Latin) Prof.

Lees, Miss M. E., M.A. Vict. (Latin) Lectr.

Browne, R. A., M.A. Wales, Ph.D. Camb. Asst. Lectr.

*Economics*

- Rees, J. Morgan, M.A. Indpt Lectr.  
 Jolliffe, Miss M. F., M.A. Asst. Lectr.

*Education*

- Archer, R. L., M.A. Ox. Prof.  
 Paterson, Alice, M.A. Edin., Ph.D. Lectr.  
 Jena Thomas, Miss M. Lectr.  
 Williams, Ivor, B.Sc. Lectr.  
 Low, H. R., M.A., B.Sc., Ed B. Glas. Asst. Lectr.  
 Instructors in Drill, Handwork, and Rural Sc.

*English Lang. and Lit.*

- Wright, H. G., M.A. Vict. Prof.  
 King, R. W., M.A. Lond. Lectr.  
 Davies, C., M.A. Wales Lectr.

*Forestry*

- Thomson, T., M.Sc. Indpt. Lectr.

*French and Rom. Philol.* [Prof.

- Fynes-Clinton, O. H., M.A. Ox.  
 Cariou, Mlle. H., L. ès L. Lectrice.  
 Briggs, E. R., M.A., Ph.D. Camb. Asst. Lectr.

*German and Teut. Philol.*

- Purdie, Edna, M.A. Liv., D Lit Indpt. Lectr.  
 Hirsch, Frln. Karola Lektor.

*History*, v. also Theol.

- Lloyd, J. E., M.A., D.Litt. Ox. Emer. Prof.  
 Dodd, A. H., M.A. Ox. Prof.  
 Thomas, J. Alun, M.A. Wales, Ph.D. Lond. Lectr.  
 Pierce, T. J., M.A. Liv. (Mediæval H.) Asst. Lectr.

*Logic and Philosophy*, v. also Theol.

- Campbell, C. A., M.A. Glas. Prof.  
 Lewis, Miss G. A., M.A. Lectr.  
 Stout, A. K., M.A. Ox. Lectr.

*Mathematics*

- Berwick, W. E. H., M.A., Sc.D. Camb. Prof.

- Phillips, E. G., M.A. Camb., M.Sc. Manc. Lectr.  
 Shepherd, W. M., M.Sc. Lond Asst. Lectr.

*Music*

- Davies, E. T., F.R.C.O. Director.  
 5 Executants and Teachers.

*Philosophy*, v. Logic and Theol.*Physics*

- Owen, E. A., M.A. Camb., D.Sc. Lond., F.Inst.P. Prof.  
 Mainstone, P. A., M.Sc. Bris. Lectr.  
 Jones, H. Irvon, M.Sc. Lectr.  
 Asst. Lectr. & Demr :  
 Thomas, Elfed, Ph.D.

*Semitic Languages*

- Robertson, E., M.A., D.D., D.Litt. St. And. Prof.  
 Evans, Rev. Principal J. T., M.A., B.D. Spl. Lectr.

*Theology*, v. also Semitic Langs.  
Spl. Lectrs. :

- Jones, Rev. Principal J. M., M.A. (Church Hist.).  
 Simon, Rev. G., M.A. (Philos. Theism).  
 Daniel, J. E., M.A. (Philos. of Religion).  
 Jenkins, Rev. Prof. J. Gwili, M.A., B.Litt.  
 Richards, T., M.A., D Litt.

*Welsh*

- Williams, Ifor, M.A. Prof.  
 Parry, R. W., M.A. Lectr.  
 Parry, T., M.A. Lectr.

*Welsh History*

- Jenkins, R. T., M.A., LL.B. Camb., B.A. Indpt. Lectr.

*Zoology*

- Brambell, F. W. Rogers, B.A., Ph.D. Dub., D.Sc. Lond. Prof.  
 Jackson, L. H., B.Sc. Lond. Asst. Lectr.

## University Extension

Whole-time Lectrs. : Jones, E. J.,  
M.A. ; Rogers, E., M.A. ;  
Parry, O., M.A. ; Jones, A. E.,

B.A. Half-time : Parry, R.  
W., M.A. ; Pierce, T. Jones,  
M.A. Many other members of  
the Staff give single courses or  
combine in giving a series.

## GENERAL INFORMATION

This College, constituted by Royal Charter in 1835, was made a constituent College of the University in 1893.

**LIBRARIES.** General, 100,000 vols. (Theology a strong feature). Welsh, 50,000, including the largest and best-equipped collection of Welsh periodicals in existence. **MUSEUMS** include : (a) a Zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind ; (b) a collection of Welsh domestic and agricultural by-gones together with Roman finds from Segontium and Capel Curig. **FARM**, 675 acres, chiefly sheep pasturage. Dairy.

Special facilities are offered for research in Welsh Lang. and Lit., Political, Social, Econ., and Religious Hist. of Wales, and allied subjects.

**COURSES.** B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, Applied Electricity and Hydro-Electrics, as well as in Pure Sc. College *Diploma* courses in Agric. and in Estate Management (3 yrs.), and in Forestry and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses : First year of Med. study ; 1 yr. post-graduate course for Teachers (Elem. and Secondary) ; for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs. and 1 term.

**FEES.** Registration, 1 g. per session. Tuition, per session : Arts, £15 ; Kindergarten, £20 ; Science, £20 ; Medicine, 1st year (including lab.), £22 ; Post-graduate courses, non-lab., 6 gs. ; with lab., 10 gs. ; Agric., etc., diploma course, winter session, £15 : 15s. (2 terms) ; Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £1 : 12s.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Several College awards ranging in value from £25 to £100, open to students of the College. Loan fund (£150) for helping poor students to complete courses ; also University Studentships of £100 and Fellowships of £250. See under Univ.

**RESIDENCE.** Hostels for 35 men (£47 p.a.) and 180 women (£49-£61). Total cost of living in lodgings and tuition in Bangor, from £70 to £80 per session.

**UNIVERSITY EXTENSION, ETC.** Local lectures in Literature, Econ., and Agric. ; small lending libraries ; Tutorial and Preparatory Classes in six counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

**PUBLICATIONS.** *Calendar* (Sept.), 2s. 6d. ; *Students' Handbook*, 1s. ; *College Magazine*, one issue per term, 1s. ; Prospectus free.

## THE YEAR 1931-32

**BENEFACTIONS.** The fund raised to commemorate the long association of the Rt. Hon. David Lloyd George with the Caernarvonshire boroughs was

transferred by him to the College and augmented by him to £1500 for a research scholarship in Welsh History. £150 from the Pilgrim Trust as a loan fund to assist necessitous students.

DEVELOPMENTS. A permanent observatory in Ffriddoedd completed. A retiring room for women students in the Science depts. provided.

UNIVERSITY EXTENSION. 24 Tutorial Classes, with 457 students (133 women), chiefly in Lit., Econ., Social and Polit. studies, and Music; 8 Preparatory Classes, with 144 students (64 women), in Lit., Music, Philos., and Geol.; 6 Extension Courses with 126 students (40 women) in Music, Lit., Hist., and Econ.; 2 Terminal Classes in Lit. The Ballard Mathews Lectures were delivered by The Very Rev. W. Ralph Inge. Three Art (lantern) lectures were given by Mr. S. C. Kaines Smith, Director of the City Museum and Art Gallery, Birmingham. The special lecturers in the Fac. of Theol. for the session were the Rev. K. E. Kirk, M.A., D.D., Trin. Coll., Oxford, and President Sydney Cave, Cheshunt Coll., Cambridge.

RETIREMENT AND RESIGNATION. Prof. J. Gibson (Philosophy), retired. Mr. E. R. Hamilton (Education), on appointment as Principal of the Borough Road Training Coll., Isleworth.

STUDENTS. Full-time: total, 552, including 101 graduates. Part-time: total, 37.

DEGREES. B.A., 66; M.A., 9 B.D., 6; B.Sc., 43; M.Sc., 8; Ph.D., 3.

# UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—Maj -Gen. THE LORD TREOWEN, C.B., C.M.G.

TREASURER—DANIEL RADCLIFFE, LL.D., J P.

PRINCIPAL—J. F. REES, M A. Ox., M Com. Birm.

REGISTRAR—D. J. A. BROWN.

LIBRARIAN—S. O. MOFFET, M A. Manc.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture*

Advisory and Research Staff :

Rees, J., B.A., M.Sc. (A. Botany).

Thompson, H. W., M.Sc. Leeds  
(A. Zool.).

Bisset, N., M.R.C.V.S. (Scot.)  
(Vet. Sc.).

### *Anatomy*

West, C. McL., M.C., M.B., B.Ch.,  
Sc.D. Dub. Prof.

Burlend, T. H., M A. Camb., B.Sc.  
Lond. (Histol & Embryol.).  
Lectr.

Yoffey, J. M., M.Sc., M D. Manc.  
Lectr.

Demrs :

Cooke, Robert V., M.B., Ch.B.  
Brist., F.R.C.S.

Rees, W. Esmond, M.D.

Rogers, Lambert C., M.Sc.,  
F.R.C.S. Ed., F.A.C.S.

Parry, Rupert, M.B., B.S. Lond.

McSweeney, Evelyn H., B.Sc.  
N.U.I. (Histol. & Embryol.).

### *Archæology*

Nash-Williams, V.E., M.A. (Keeper  
of Dept. of A. in Nat. Museum)

### *Architecture*

Purchon, W. S., M.A. Lond.,  
A.R.I.B.A. Lectr.

### *Botany*

McLean, R. C., M A. Camb, D.Sc.  
Lond., F L S Prof.

Dickinson, S, D I C, M Sc Lectr.

Martin, Mary S., B.Sc. Edin.

Asst. Lectr. & Demr.

Hyde, H. A., M.A. Camb (Keeper  
of Bot. in Nat. Museum)

(Econ. Bot.) Hon. Lectr.

### *Chemistry*, v. also *Physiol.*

Jones, W. J., D.Sc. Manc., M.Sc.,  
F.I.C., F.Inst.P. Prof.

Lecturers :

Bassett, H. Ll., M.A. Camb.,  
B.Sc. Lond., A.I.C. (Organic  
C.)

Cullinane, N. M., M.Sc., D.Sc.  
N.U.I., F.I.C.

Bowden, S. T., B.Sc., Ph D.

Davies, W. Cule, B.Sc., Ph.D.

Asst. Lectr. and Demr.

### *Classics*

Tillyard, H. J. W., M A. Camb.,  
D Litt. Edin. (Greek) Prof.

Grundy, W. W., M.A. Camb., B.A.  
Dub. (Latin) Prof.

Lectrs. :

Freeman, Kathleen, M.A.

Richardson, L. J. D., M A. Dub.

Evans, Eric, B.A. Wales and Ox.

Asst. Lectr.

### *Economics and Pol. Science*

Roberts, W. J., M.A. Ox.

Fulton Prof.

Parris, S. C., B.Sc. (Econ.) Lond.  
Lectr.

*Education*

Wheeler, Olive A., D.Sc. Lond.,  
M Sc. Prof

Lectrs. :

Jones, E J, M A.  
Actg. Hd., Training Dept.  
(Men).

Barke, Ethel M., M.A. Dub., A.M  
Columb.

Thomas, Nora F., M.A. Manc.

Amos, A. D, B.Sc. Lond., M A.

Thomas, R, M.A. Lond. and  
Wales, D Sc.

Morris, Eliz. M.D., M.A. Lond., B.A.

Asst Lectrs :

Sibley, G. V.

Oppenheimer, Mary.

Williams, D. E. Parry, B.Sc.,  
M.Mus.

Jackson, Annie, B Sc. Lond.

*Engineering*

Thomas, W. Norman, M.A., D.Phil.  
Ox., M.Sc. Birm. Prof.

Lecturers :

Thomas, S., M.Sc.

Foster, P. F., B.Sc. Lond., M.Sc.

Aston, K., B.Sc. (Tech.) Manc.,  
M.Sc.

Cassie, W. F., B.Sc., Ph.D. St.  
And., M.Sc. Ill.

Asst. Lectr. & Demr.

1 technical Asst.

*English Lang. and Lit.*

Brett, C., M.A. Ox. Prof.

McLean, Miss C. M., M.A. Edin.  
Lectr.

Llewellyn, E. C., M.A., B.Litt. Ox.,  
B.A. Lectr.

Carnegy, F. A. R., M.A. Lond.,  
D.Phil. Konigsb. Asst. Lectr.

*French*

Watkin, M., M.A., L. ès L. Ren.,  
Ph.D. Zur., O.I.P. Prof.

Jones, P. Mansell, M.A., B.Litt.  
Ox. Lectr.

Merlant, J., L. ès L en droit Dijon  
Lecteur.

Henry, Marguerite, L. ès L. Paris  
Lectrice.

*Geology*

Cox, A. H., D.Sc. Birm., Ph.D.  
Stras Prof

Heard, A, M Sc. Manc., Ph.D.  
Lectr.

Dingwall, Miss J. M. M, M A.,  
B Sc Edin. Lectr.

*German*

Lloyd, M. D. Idwal, M.A. Lectr.

Schoberth, F. W., Ph D. Erlang.  
Asst. Lectr.

*Histology, v. Anat**History*

Bruce, H, M.A. Ox. Prof.

Whale, Miss G. B. M., B A.,  
B.Litt Ox. Lectr.

Williams, David, A M. Col, M A.  
Asst Lectr.

*History of Wales*

Rees, Wm., D.Sc. Lond., M A.  
Prof.

*Industrial Relations*

Marquand, H. A., M.A. Prof.

*Law*

Davies, E., B.C.L., M.A. Ox. Lectr.

Evans, C., B.C.L., M.A. Ox.  
Asst. Lectr.

*Mathematics*

Livens, G H., M.A. Camb. Prof.  
Lectrs. :

Taylor, D. G., M.A. Camb. and  
Glas., D.Sc. Glas.

Hayden, H. A., M.Sc. Lond., B.Sc.  
Pope, A. H., M.Sc. Lond.

Asst. Lectr.

*Metallurgy*

Read, A. A., D.Met. Sheff., F.I.C.,  
F.C.S. Prof.

Jones, W. R. D., D.Sc. Lectr.

Jones, B., M.Sc., A.I.C. Asst. Lectr.

*Mining*

Price, S. W., A.R.S.M., M.I.M.E. [Lectr.

Chubb, C. S., B.Sc. Asst. Lectr.

*Music*

Evans, D., Mus.D. Ox. Prof.

Lloyd, J. Morgan, Mus.Doc. Dub.  
Lectr.

9 Teachers.

*Philosophy* [Prof.  
 Scott, J. W., M.A., D.Phil. Glas.  
 Thorburn, J. M., M.A., B.Sc. Edin.,  
 B.A. Lond. Lectr.

*Physics* [Prof.  
 Dunbar, R. T., M.A., Ph.D. Edin.  
 Lectrs. :

Young, C. L., B.Sc.  
 Harker, G. F. H., M.A. Camb.  
 Crackston, J. E., M.Sc. Camb.,  
 M.Sc. Liv.  
 Wood, R. G., M.Sc. Manc. Asst. Lectr.

*Physiology*  
 Brown, T. Graham, D.Sc., M.D.  
 Edin., M.R.C.P.I., F.R.S. Prof.  
 Pryde, J., B.Sc. St. And., M.Sc.  
 (Lectr. in Physiol. Chem.)  
 Asst. Lectr. & Demr.  
 Hemingway, A., M.Sc., M.B., Ch.B.  
 Leeds Lectr. (Expl. P.).  
 Shaxby, J. H., D.Sc. Lond.,  
 F.Inst.P.

Lectr. (Special Sense P.).  
 Phelps, H. J., B.A., B.Sc. Ox.  
 Asst. Lectr. & Demr.

*Semitic Languages*  
 Robinson, T. H., M.A. Camb.,  
 D.D. Lond., Hon. D.D. Aberd.  
 Prof.

Rowley, H. H., B.A. Brist., B.D.  
 Lond., B.Litt. Ox. Asst. Lectr.

*Welsh*  
 Gruffydd, W. J., M.A. Ox. Prof.  
 Williams, G. J., M.A. Lectr.  
 Morgan, T. J., M.A. Asst. Lectr.

*Zoology & Comparative Anatomy*  
 Tattersall, W. M., D.Sc. Manc. Prof.

Lectrs. :  
 Lloyd, J. H., M.Sc. Birm., F.Z.S.  
 Sheppard, Edith M., M.Sc., F.Z.S.  
 Thompson, H. W., M.Sc. Leeds,  
 Adviser in Agr. Zool. (Entomol.).

Training College of Domestic Arts  
 for South Wales and Mon-  
 mouthshire

Principal :  
 Davies, E. M., B.Sc. Lond., Hous.  
 and Soc. Sci.  
 7 Teachers.

#### University Extension

Tutors, 31 (including a few  
 members of the College Staff).  
 Joint Secy.—D. J. A. Brown,  
 Regr.

## ASSOCIATED INSTITUTIONS

TECHNICAL COLLEGE, CARDIFF. Principal, C. Coles, B.Sc.

SOUTH WALES AND MONMOUTHSHIRE SCHOOL OF MINES, TREFOREST.  
 Acting Principal, Robert James.

Both Institutions join with the University College in granting Diplomas,  
 v. *infra* : College Diplomas.

## GENERAL INFORMATION

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one  
 of the constituent Colleges of the Univ. For early history, see *Yearbook*, 1929.

A Supplemental Charter was granted to the College on Jun. 21, 1931, and a  
 Charter of Incorporation to the Welsh National School of Medicine on Feb. 5,  
 1931.

Medical students pursue their preliminary medical studies at the Coll. and  
 their clinical studies at the Welsh National School.

**LIBRARY** : Drapers' Company's, 70,000 vols. **MUSEUMS** : Anat., Zool.,  
 Agric. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.)  
 is located in an adjoining building. **LABORATORIES** : Physical Research,  
 with liquid-air plant, etc. ; Engineering (including 100-ton testing machine);  
 and usual Science and Medical teaching and Research labs.

**FACULTIES.** Arts, Science, Theology. *Departments:* Music, Applied Science and Technology, Teaching (Elem. and Secondary); Training College of Domestic Arts; Advisory and Research Dept. in Agric.; Law.

**COLLEGE DIPLOMAS.** Engin., Metalliferous Mining, Metallurgy; Lang., Lit., and Hist. of Wales; Econ. and allied subjects; Music, Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Diploma in Biology is awarded after a one-year's course. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post-diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course.

**SCHOLARSHIPS** (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. *See also* under Univ.

**FEES.** Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical (first 3 yrs.), £25 to £35; Research, 6 to 10 gs.; Domestic Arts, £40-£71; Registration, 1 g. p.a.

**RESIDENCE.** 4 Hostels for women. Sessional Fees, £65 to £75. Board and lodging in the City can be obtained at about £2 per week.

**PHYSICAL WELFARE OF STUDENTS.** There is an Asst. Lectr. in Physical Training who also acts as College Adviser in Physical Training and Games.

**PUBLICATIONS.** *Calendar* (Feb.), 2s.; *Students' Handbook*; *Cap and Gown. Information regarding Courses and Careers open to Students of Science.*

## THE YEAR 1931-32

**BENEFACTIONS.** £4335:16s. for Appeal Fund, which has now reached £171,902. £335:11:6 for Scholarship and Prizes. £1007:15:5 for General Purposes.

**NEW BUILDINGS.** A temporary lecture room for the dept. of Physics, and two addnl. labs. for the depts. of Bot. and Zool. A refectory and further accommodation at the Students' Union Buildings are to be erected at a cost of about £8000.

**NEW DEVELOPMENTS.** A Faculty of Theology established. A College Appointments and Advisory Committee constituted. The official opening of the Playing Fields at Caerau on April 30, 1932.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** The Vice-Chancellor of the Univ. of Birmingham, Sir Charles Grant Robertson, lectured on "Great Britain and the Problems of Europe in 1932." Prof. Lascelles Abercrombie (Bedford Coll., London), lectured on Thomas Hardy's "Dynasts." Mr. Denis H. Robertson (Trin. Coll., Cambridge), lectured on "Great Britain and the Gold Standard." Prof. Stanley H. Watkins (Univ. Coll., Exeter) lectured on "Towards a new Education."

**RETIREMENT AND RESIGNATIONS.** Prof. W. Phillips (Educ.), retired; Mr. J. E. Barlow (Engin.); Mr. E. C. N. Strong (Anat.); Miss E. M. Greenlees (Training Dept.); Mlle. Vuillod (French).

**STUDENTS.** Full-time, 1137, including 185 graduates. Part-time, 91, including 12 graduates.

**DEGREES OBTAINED.** B.A., 97; B.Sc., 59; M.A., 7; M.Sc., 11; Ph.D., 4; D.Sc., 3; M.B., B.Ch., 6; M.D., 3; Mus.Bac., 4; B.D., 3.



# THE WELSH NATIONAL SCHOOL OF MEDICINE, CARDIFF

PRESIDENT—The Rt. Rev. THE LORD BISHOP OF MONMOUTH, D.D.

PROVOST—Prof. A. W. SHEEN, C.B.E., M.S., F.R.C.S.

HON. TREASURER—SIR WILLIAM JAMES THOMAS, LL.D.

SECRETARY—S. C. EDWARDS.

## PROFESSORS, LECTURERS, ETC.

(For subjects of first 2 yrs.—Anat.,  
etc., v. Univ. Coll., Cardiff)

### *Hygiene and Public Health*

Collis, E. L., M.A., D.M. Ox.,  
M.R.C.P., M.R.C.S.

Mansel Talbot Prof. of  
Preventive Med.

### Lectrs. :

Williams, E. Colston, M.D. Lond.,  
D.P.H. Camb., F.R.C.S.E.

Picken, R. M. F., M.B., Ch.B., B.Sc.  
Glas., D.P.H. Camb.

Morgan, W. Parry, M.A., M.D.  
Camb., B.Sc. Lond.

Sugden, J. H., M.Sc. Manc., F.I.C.

Buist, J. J., M.B. Lond.

(Vaccination) Instr.

### *Materia Medica and Pharmacology*

Stevens, W. Mitchell, M.D. Lond.,  
F.R.C.P. Lond. Lectr.

Beatty, J., M.A., M.D. Dub.,  
M.R.C.P. Lond., D.P.H.

Asst. Lectr.

### *Medicine (Med. Unit)*

Kennedy, A. Mills, M.D., Ch.B.  
Glas., M.R.C.P.

Prof. and Director.

Davies, Ivor J., M.D., B.S. Lond.,  
F.R.C.P. Senr. Asst.

### Junr. Assts. :

Phillips, W., M.B., B.Ch.

Williams, D. Aelwyn, B.Sc.,  
M.R.C.S., L.R.C.P.

Ingham, J., A.I.C. Bio-Chemist.  
McCowan, P. K., M.D. Edin.,  
M.R.C.P. Lond., D.P.M. Eng.  
(Mental Dis.) Lectr.

Buist, J. J., M.B. Lond.  
(Forensic M. and Toxi-  
col.) Lectr.

McSweeney, C. J., M.D., N.U.I.,  
B.Ch., B.A.O., D.P.H.  
(Infect. Dis.) Lectr.

### *Obstetrics and Gynaecology*

Strachan, G. I., M.D., Ch.B. Glas.,  
F.R.C.P. Lond., F.R.C.S. Eng.  
and Edin., F.C.O.G. Prof.

Collins, B. K. Tenison, M.A., M.D.,  
B.C. Camb., F.R.C.S.E.,  
M.R.C.S., L.R.C.P., F.C.O.G.  
Lectr.

### Assts. :

Maliphant, R. G., M.D. Lond.,  
M.R.C.P., F.R.C.S.

Evans, M. D. Arwyn, M.B.

Webster, Helena J., M.B., B.Ch.,  
M.R.C.S., L.R.C.P., D.P.H.

### *Pathology and Bacteriology*

Duguid, J. B., M.D. Aberd. Prof.  
Morgan, W. Parry, M.A., M.D.

Camb., B.Sc. Lond.  
(Bact.) Lectr.

Gough, Jethro, M.D., M.R.C.S.,  
L.R.C.P. (Path.) Asst. Lectr.

Harrison, C. V., B.Sc., M.B., B.Ch.  
Demr.

Evans, E. H., M.B., B.S. Lond.,  
M.B., B.Ch. Demr.

*Surgery (Surg. Unit)*

Sheen, A. W., C.B.E., M.B., M.S.  
Lond., F.R.C.S. Eng.

Prof. and Director.

Rogers, L. C., M.Sc., F.A.C.S.,  
F.R.C.S. Edin.

Senr. Asst. and Asst. Dir.

Cooke, Robert V., M.B., Ch.M.  
Brist., F.R.C.S. Senr. Asst.

Parker, A. O., M.D., C.M. Manc.  
(Orthopaedics) Lectr.

*Tuberculosis*

Cummins, S. Lyle, C.B., C.M.G.,  
M.D., L.I.D.

David Davies Prof.

Williams, Emd. M., M.D., M.R.C.S.,  
L.R.C.P. Asst.

Powell, D. A., M.D., B.S. Lond.,  
M.R.C.S., L.R.C.P.

Hon. Lectr.

*Recognized Teachers:*

Brownlee, A., M.D., F.R.C.S.E.,  
L.R.C.P., L.D.S., D.P.H.

Davies, William, M.R.C.S.,  
L.R.C.P.

Gilchrist, James C., M.D., Ch.B.  
Hiley, R. Melville, M.R.C.S.,  
L.R.C.P.

Johnson, A. C., M.A., M.B., B.C.  
Tytler, W. H., M.B., B.A.

*Recognized Clinical Teachers and  
Part-time Lecturers*

*Anæsthetics* [Lectr.

Greaves, H. Gordon, M.B., B.Ch.

*Dental Surgery*

Spiridion, C., L.D.S.

McFarlane, J., M.R.C.S., L.R.C.P.,  
L.D.S.

Murray, A. L., L.D.S.

*Dermatology*

Beatty, J., M.A., M.D., M.R.C.P.,  
D.P.H. Lectr.

*Diseases of Children*

Watkins, A. G., M.D., B.S. Lond.,  
B.Sc., M.R.C.P. Lectr.

*Medicine (In-Patients)*

Stevens, W. Mitchell, M.D.,  
F.R.C.P.

Lewis, Cyril, M.D.

*Medicine (Out-Patients)*

Davies, Ivor J., M.D., F.R.C.P.

Evans, Herbert T., M.D., M.R.C.P.

Evans, Abel, M.B., B.S., M.R.C.P.

*Ophthalmology*

Davies, D. Leighton, M.D., M.S.,  
F.R.C.S. Lectr.

Thomas, J. W. Tudor, M.B., M.S.  
Lond., M.D., D.Sc., F.R.C.S.

*Oto-Rhino-Laryngology*

Owen, R. D., B.Sc., F.R.C.S.  
Edin. Lectr.

Prichard, A. A., M.D., B.Ch.

*Pathology, Clinical*

Schölberg, H. A., M.B. Lond.,  
D.P.H. Camb.

*Physio-Therapy*

Evans, T. Garfield, M.D., B.S.,  
D.M.R.E. Lectr.

*Radiology*

Rhys, Owen L., M.D., B.Ch. Lectr.

*Surgery (In-Patients)*

Martin, William, M.A., M.B., C.M.,  
B.Sc.

Wade, J. O. D., O.B.E., M.S.,  
F.R.C.S.

Harries, D. J., M.D., B.S., D.Sc.,  
F.R.C.S.

*Surgery (Out-Patients)*

Hammond, T. E., F.R.C.S.

Haycraft, J. B., M.C., M.B., Ch.B.,  
F.R.C.S.

Ioan-Jones, D., M.B., B.Ch.,  
F.R.C.S.

*Surgery, Clinical (at City Lodge  
Hospital)*

Harries, D. J., M.D., B.S., D.Sc.,  
F.R.C.S.

*Veneral Diseases*

Rhys, Owen L., M.D., B.Ch. Lectr.

Watterson, Miss D., M.B., Ch.B.  
Lectr.

## GENERAL INFORMATION

The Welsh National School of Medicine originated in the institution of Depts. in Anat. and Physiol. at the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, in 1893. The Dept. of Mat. Med. and Pharmacol. was instituted in 1898, and the Chair of Pathol. and Bacteriol. in 1910. The David Davies Chair of Tuberculosis and the Mansel Talbot Chair of Prev. Med. were endowed in 1921, and in that year Medical and Surgical Units and a Dept. of Obstet. and Gynæcol. were instituted. On Feb. 5, 1931, a Charter of Incorporation was granted to the School by H.M. the King in Council.

The School is recognized by the Univ. of London, and by the Conjoint Board of Examns. for the Royal Coll. of Physicians and the Royal Coll. of Surgeons, and candidates can pursue their studies for the degrees of M.B., B.S. (London), and for the Diplomas L.R.C.P., M.R.C.S. at this School.

**DEGREES AND DIPLOMAS.** The School provides courses of study for the degrees of M.B., B.Ch., and for the Tuberculous Dis. Dipl. and the Dipl. in Public Health of the Univ. of Wales.

**FEES.** Registration Fee, £1 : 1s. ; Annual Composition Fee, £25 to £35 ; Hospital Practice (4th, 5th, and 6th years), £12 : 12s. ; M.B., B.Ch., £23 : 5s. approx. ; M.D., £20 ; M.Ch., £20.

**PRIZES AND MEDALS.** "Dr. Price Prize," £50 ; "Alfred Sheen Prize," £5 "David Hepburn Medal," "Alfred Hughes Prize," each tenable at the University College of South Wales and Monmouthshire ; "John Maclean Prize" in Obstetrics and Gynæcology (Silver Medal and £2 : 10s.) ; "Willie Seager Prize" in Medicine, in Surgery, in Pathology and Bacteriology (Gold Medal and £4 each).

**POST-GRADUATE SCHOLARSHIPS.** "Mrs. John Nixon" for Research in Med. and Med. Pathol., annually, £150 for 1 yr. "Lord Merthyr" for res. in Cancer, annually, £200 for 1 yr. For *Cecil Prosser* for res. in Tuberculosis and *Iwan Maclean* for res. in Obst. and Gynæc. v. App. XXIII. 16.

**TERMS.** Oct. 4-Dec. 16, 1932 ; Jan. 10-March 24 ; Apr. 19-June 30, 1933.

**PUBLICATIONS.** *Prospectus* and *Regulations* (free).

## THE YEAR 1931-32

**RETIREMENTS.** F. P. S. Cresswell (Ophthalmol.), J. McGarrity (Feyers), Alfred Howell (Dis. of Children), W. Kittow (Dental Surg.), R. Strom-Olsen (Jr. Asst. Med.).

**STUDENTS.** Full-time : total, 234. Part-time : total 141, including 40 graduates.

**DEGREES OBTAINED.** M.B., B.Ch., 6 ; M.D., 3. *Diplomas* : (Wales) T.D.D., 2 ; (Conjoint) L.R.C.P., M.R.C.S., 6.

# UNIVERSITY COLLEGE OF SWANSEA

PRESIDENT—Sir GEORGE BARSTOW, K.C.B.

PRINCIPAL—C. A. EDWARDS, D.Sc., F.R.S.

REGISTRAR—EDWIN DREW.

LIBRARIAN—OLIVE M. BUSBY, M.A. Lond.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		Taig, T., M.A. Glas.	Lectr.
Mockeridge, Florence A., D.Sc.		Westcott, Miss I. M., B.A. Bris.,	
Lond.	Ind. Lectr.	B.Litt. Ox.	Lectr.
Rees, T. Kenneth, M.Sc.	Lectr.	<i>French</i>	
Little, Percy A., Ph.D, B.Sc.		Williams, Mary, D. de l'U. Paris,	
	Lectr.	M.A., O.A.	Prof.
<i>Chemistry</i>		Diverres, P., M.A. Liv., D. ès L.	
Coates, J. E., O.B.E., D.Sc. Birm.,		Rennes, Off de l'Instr. Pub.	
M.Sc.	Prof.		Lectr.
Hinkel, I. E., D.Sc. Lond., F.I.C.		Pool, Miss E. M., M.A., Liv.	Lectr.
(Organic C)	Lectr.	<i>Geology and Geography</i>	
Ayling, E. E., M.Sc. Lond., F.I.C.		Trueman, A. E., D.Sc. Lond.	Prof.
	Lectr.	Stuart, A., M.Sc. Durh.	Lectr.
Hartshorne, N. H., Ph.D Lond.,		Williams, D. T., M.A.	Lectr.
M.Sc. Birm.	Lectr.	Simpson, Brian, B.Sc. Liv.	
<i>Classics</i>			Asst. Lectr.
Johnson, S. K., M.A. Camb.	Prof.	<i>German</i>	[Ind. Lectr.]
Stevenson, J., M.A. Camb. and		Halliday, F. W., M.A. Manc.	
Princeton	Lectr.	Coveney, Miss D. K., Ph D. Lond.	
Hill, H., M.A. Sheff.	Lectr.		Asst. Lectr.
Tucker, G. M., B A. Camb.		<i>History</i>	[Prof.]
	Asst. Lectr.	Hughes, E. E., M.A. Ox., B A.	
<i>Education</i>		Medlicott, W. N., M.A. Lond.	
Cavenagh, F. A., M.A. Lond.	Prof.		Lectr.
Jones, Idwal, M.A.	Lectr.	Roberts, Glyn, M.A.	Lectr.
Stephens, D. J., M.Sc.	Asst. Lectr.	<i>Mathematics</i>	
Owen, Annie, M.A., D. de l'U.		Richardson, A. R., D.S.O., B.Sc.	
Paris	Asst. Lectr.	Lond., A.R.C.S.	Prof.
<i>Engineering</i>		Wilson, R., M.A. Ox.	Lectr.
Bacon, F., M.A. Camb.	Prof.	Littlewood, D. E., M.A. Camb.	
Isaacs, R. G., M.Sc. Bris., B.Sc.			Asst. Lectr.
Lond.	(Elec. E.) Lectr.	Rosenhead, Louis, Ph.D. Leeds	
Fordham, A. A., B.Sc. Lond.		and Camb.	Asst. Lectr.
	(Civ. E.) Lectr.	<i>Metallurgy</i>	
Caswell, J. S., M.Sc.	Lectr.		[Prof.]
<i>English</i>		Edwards, C. A., D.Sc. Manc., F.R.S.	
Thomas, W. D., M.A. Ox., B.A.		Taverner, L., A.R.S.M., D.I.C.	
	[Prof.]		Asst. Prof.

Higgins, R., Ph.D. Glas.	Lectr.	Davidson, P. M., B.A. Camb.,	
Griffiths, Roosevelt, M Sc.	Lectr.	Ph.D. Lond.	Lectr.
Smith, A. E. W., Ph.D. Birm.		Wright, L., M Sc. Sheff.	Lectr.
	Asst. Lectr.	Jones, F. L., M A Ox., D.Phil.	

*Philosophy*

Heath, A. E., M.A. Camb	Prof.
Stedman, R. E., M.A. Brit. Col.	
Ph.D. Ed.	Lectr.
Action, H. B., B A Ox.	Asst. Lectr.

*Welsh*

Lewis, Henry, M.A.	Prof.
Lewis, Saunders, M.A. Liv.	Lectr.
Williams, Stephen J., M A.	Lectr.

*Physics*

Evans, E. J., D.Sc. Lond., B.Sc.,	
A.R.C.S.	Prof.

*University Extension*

Thomas, P. S., M.A.	Staff Tutor.
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## GENERAL INFORMATION

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales by a Supplemental Charter to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings. Extensive laboratories have been erected in the Park, on a site adjacent to the main College building, for the departments of Metallurgy, Engineering, Chemistry, and Physics, and a building to accommodate the Arts Departments and Library.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All the College laboratories (Physics, Chem., Geol., Biol., Metall., Engin.) are well equipped and include fine experimental plant for instruction and research in combustion engineering.

**FACULTIES.** Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

**COURSES FOR DEGREES, ETC.** Courses (3 years) for the degrees of the Univ. in Pure and Applied Science and Arts; also for the College diplomas in Metall., Engin., and Mathematical Physics; and complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

**FEEs.** For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1: 1s. p.a.; for Research, from 6 to 10 gs.

**RESIDENCE.** Hostel for women students. A list of Registered Lodgings is kept by the Registrar.

## THE YEAR 1931-32

**BENEFACTIONS.** Donations from £15 to £1400 for research, etc. *Annual Subscriptions*, £3920.

**VISITS OF TEACHERS FROM OTHER COLLEGES.** Under the scheme of the University of Wales for the interchange of teachers, the following lectures were given during 1931-32: Prof. R. C. McLean (Cardiff) on "Some Chemical and Biological Aspects of Sea Water" (3 Lectures); Dr. F. G. Soper (Bangor) on "Some Applications of the Boltzmann Distribution Law and Recent Developments of Chemical Kinetics" (5 lectures); Prof. W. W. Grundy (Cardiff) on "Lucretius" (3 lectures); Prof. Norman Thomas (Cardiff) on "Building Science" (3 lectures); Prof. A. H. Cox (Cardiff) on "Some Aspects of Canadian Geology and Geography" (2 lectures); Dr. A. Heard (Cardiff) on "Modern Methods of Treating Obscure Fossil Plants" (2 lectures); Prof. C. K. Webster (Aberystwyth) on "Some Aspects of the World Crisis" (5 lectures); Mr. A. K. Stout (Bangor) on "Descartes' Philosophy in its Relation to his Physics" (3 lectures); Prof. T. Gwynn Jones (Aberystwyth) on "Y Brudiau Cynharaf" (4 lectures); Prof. W. J. Gruffydd (Cardiff) on "Y Mabinogion a'r Rhamantau" (4 lectures).

**RESIGNATIONS.** Mr. H. D. Westlake (Classics), on election to a Research Fellowship at St. John's Coll., Cambridge; Dr. R. I. Aaron (Philos.), on appt. to the Chair of Philos. at Univ. Coll. of Wales, Aberystwyth; Mr. W. Morris Jones (Physics), on appt. as Director of Education for the Rhondda L.E.A.

**UNIVERSITY EXTENSION WORK.** 22 Univ. Tutorial Classes and 11 Prep. Classes and 3 University Extension Courses, with 749 students. Many single lectures were given by members of the College staff in Swansea and elsewhere. The Coal Owners' Univ. Trust Fund provided for 10 short courses of lectures.

**STUDENTS.** Full-time: total, 584, including 98 graduates. Part-time: total, 24, including 6 graduates.

**DEGREES OBTAINED.** D.Sc., 1, Ph.D., 2; M.Sc., 7; B.Sc., 31; B.A., 39; M.A., 6.

# UNIVERSITY COLLEGE OF THE SOUTH- WEST OF ENGLAND, EXETER

PRESIDENT—H.R.H. THE PRINCE OF WALES and DUKE OF CORNWALL,  
K.G.

DEPUTY PRESIDENT—Sir HENRY Y. B. LOPES, Bart., D.L., M.A.

PRINCIPAL—JOHN MURRAY, M.A. Ox., LL.D. Aberd.

VICE-PRINCIPAL—Prof. W. H. LEWIS, M.A. Ox.

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

LIBRARIAN—H. TAPLEY-SOPER, F.S.A., F.L.A.

## PROFESSORS, LECTURERS, ETC.

### *Astronomy*

Lockyer, W. J. S., M.A. Camb.,  
Ph.D. Gott., F.R.A.S.  
Hon. Lectr.

### *Botany and Horticulture*

Sager, J. L., M.A. Camb., F.L.S.  
Hd. of Dept.  
Cumming, A. M., A.R.C.S.I.  
Asst. Lectr.

### *Celtic* [Hon. St. Petrock Lectr.]

Jenner, H., M.A. Wales, F.S.A.  
  
*Chemistry* [Prof.]  
Lewis, W. H., M.A. Ox., F.I.C.  
Britton, H. T. S., D.Sc. Lond.,  
D.I.C., F.I.C.  
(Phys. C.) Lectr.  
King, Miss R., M.Sc. Lond. Lectr.  
Wray, E. C. (C. of Dyestuffs)  
Lectr. and Demr.

### *Classics*

Fletcher, F., M.A. Ox. Prof.  
Gordon, M. L., M.A., B.Litt. Ox.  
Lectr.  
Heap, G. V. M., M.A. Camb.  
Asst. Lectr.

### *Commerce and Economics*

Sykes, J., M.Com. Manc., M.A.  
Leeds Hd. of Dept.  
Baster, A. S. J., M.Com., B.Sc.  
Lond. Asst. Lectr.

### *Cultural Evolution*

Dawson, C., M.A. Ox. Lectr.

### *Education and Psychology*

Watkins, S. H., M.A. Wales, Ph.D.  
Leip. Prof.  
Walker, Miss A. J., M.A. Birm.,  
B.A. Lond. Lectr.  
Mathias, Miss S. Y., M.A. Liv. „  
Asst. Lectrs. :  
Tibble, J. W., B.A., M.Ed. Leeds  
Parker-Oxspring, J. H., M.Sc. Birm.  
Stephenson, Miss E. M., M.Sc.  
Lond.  
Anderson, H. J., M.A. Edin., B.A.  
Ox.  
11 Assts. and Pt.-time Lectrs. and  
Instrs. in Teachers' Training  
Dept.

### *Elocution and Dramatic Art*

Riley, W. A., L.R.A.M. (Eloc.)  
Lectr.

### *English*

Horrox, W. L., M.A. Camb. Prof.  
Wright, Miss B. D., M.A. Edin.,  
Ph.D. Lond. Lectr.  
Lloyd, L. J., M.A. Camb.  
Asst. Lectr.

Dexter, Miss K. M., B.A. Lond.  
Student Lectr.

### *Extra-mural Studies* [Hcad.]

Patterson, E. J., M.A. Camb.

### *Geography*

Lewis, W. S., M.Sc. Lond.  
Reardon Smith Prof.

- Clayden, A. W., M.A. Camb., F.G.S. Visiting Director.  
 Simkins, Miss E., M.A. Liv. Asst. Lectr.  
 Swainson, Miss B. M., M.A. Lond. Pt-time Asst. Lectr.
- Geology, Physical*  
 Howard, F. T., M.A. Ox. Lectr.
- History*  
 Sykes, Rev. N., M.A. Leeds, M.A., D.Phil. Ox. Prof.  
 Handcock, W. D., M.A. Brist., B.Litt. Ox. Lectr.  
 Greenaway, G. W., M.A. Camb. Asst. Lectr.
- Law*  
 Morgan, J. G., M.A. Ox., LL.B. Lond. Hd. of Dept. & Dir. of Legal Studies.  
 Roberts, C. H., M.A. Ox. Asst. Lectr.  
 Turner, R. W., M.A., LL.M. Camb. Tutor.  
 Turner, R. W., M.A., LL.M. Camb. (Book-keeping, etc.) Lectr.  
 Parry, H. Lloyd, O.B.E., B.A., B.Sc., LL.B. (Const. L. and Pub. Adminisn.) Hon. Lectr.
- Mathematics*  
 Brown, T. A., M.A., B.Sc. Edin., B.A. Camb., F.R.A.S. Prof.  
 Mallison, H. V., M.A. Camb., B.Sc. Lond. Lectr.  
 Unthank, H. W., M.A. Camb., M.A., B.Sc. Lond., F.R.A.S. Lectr.  
 Constable, K. M., M.A. Ox. Part-time Asst.
- Pitt, D. M. B., B.Sc. Lond. Tutor.
- Modern Languages*  
 Schopp, J. W., M.A. Lond. Prof.  
 Wilson, Aileen, M.A. Dub., D. de l'U. Paris Asst. Lectr.  
 Trudgian, Helen M., L. ès L. Paris Asst. Lectr.  
 Macaulay, Eve, M.A. Ox. and Birm. Asst. Lectr.  
 Salmon, P., L. ès L. Paris Asst.
- Music*  
 Armstrong, T., M.A., D.Mus. Ox. Hd. of Dept.
- Philosophy* [Hd. of Dept.  
 Levine, I., M.A., D.Litt. Glas.
- Phonetics*  
 Woodbridge, Vera, L.R.A.M. (Eloc.) Part-time Asst.
- Physics*  
 Newman, F. H., D.Sc. Lond., A.R.C.S., F.Inst.P. Prof.  
 Scarle, V. H. L., M.Sc. Lond. Lectr.  
 Hoare, F. E., M.Sc., Ph.D. Lond., A.R.C.S. Asst. Lectr.
- Politics, International* [Lectr.  
 Patterson, E. J., M.A. Camb.
- Zoology*  
 Harvey, L. A., M.Sc. Lond., D.I.C. Lectr. & Head of Dept.  
 Stephenson, Miss E. M., M.Sc. Lond. Asst. Lectr.
- University Extension**  
 Chairman of Committee for External Studies and Joint Hon. Sec. for Tutorial Classes :  
 E. J. Patterson, M.A.

## GENERAL INFORMATION

Founded 1865. Organized as University College, 1901. Incorporated 1922.

Classes in Arts, Science, Econ., Com., Law, Music, Agr., Hort., for London Univ. degrees and Diplomas. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. Provision for special work in English (incl. Phonetics) for foreigners for 1 or more terms. (Prospectus from Registrar.) The Training



Dept. is recognized as a Training College for Elem. and Sec. teachers. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College. A Dept. of Horticulture was added in Oct. 1929.

**AFFILIATION.** The College is affiliated to the Univs. of Ox. and Camb. It is recognized by the Camb. Special Board for Med. and the Conjoint Med. Board as a place of instruction in Chem., Physics, and Biol., and by the Institute of Chemistry for instruction in preparation for its Exams.

**FACULTY BOARDS** in Arts, Sci., and Econ. supervise students.

**ADMISSION** Matriculated students aged 17 or over, between 16 and 17 by special resolution of the Senate. Unmatriculated students must as a rule be over 18 and must satisfy the Senate as to their fitness to profit by the courses.

**FEES.** Sessional: Interm. course, Arts or Econ., £25; Sci., £30; final course in Arts or Econ., £25; Sci., £30; fees at reduced rate payable by students from Devon, Cornwall, Exeter, or Plymouth; Law, 8 to 16 gs.; Music (term), 6 gs.; for foreign students (term), 6 gs.; Research, 8 to 14 gs.; Teachers' Training Dept. (Elem. and Sec.), £13; Registration, £2 (except: Postgrad., £1; Law, £1. 1s.; Music, 2s. 6d. a term).

**RESIDENTIAL FACILITIES.** For *women*—(a) Hope Hall (54); (b) Bradninch Hall (60); (c) Lopes Hall (13), sessional fee, £58-£63; (d) Sandford Hall (30). For *men*—(a) Reed Hall (76), sessional fee, £69-£73; (b) Kilmorie Hall (43), £63 (£24: 15s. for students in training); (c) Mardon Hall, opened in Jan. 1933 (80). All students not living at home must reside in one of the Halls of Residence. Foreign students residing for 1 or 2 terms only, £25-£26: 5s. per term.

**SCHOLARSHIPS** for graduates: one or two in Sci. annually from Andrew Simons Scholarship Fund; one annually to Mod. Lang. student for study abroad, and one annually in Arts tenable at this College or elsewhere.

**PUBLICATIONS.** *Prospectus*, issued (free) in July; *Annual Report* (free) in Oct.; the *Ram*, College Magazine (termly); the *College Field Club Proceedings*; Guild of Undergraduates' *Handbook*.

## THE YEAR 1931-32

**BENEFACTIONS.** The Exeter Rotary Club, the sum of £1414: 7: 1 for the award of Scholarships.

**NEW BUILDINGS.** The building of Mardon Hall for 80 men students is nearing completion and will be open in Jan. 1933. The extension of Lopes Hall (for women) commenced. Argyle House bought to provide additional lecture and staff rooms.

**NEW POSTS.** Hon. Professor of the Philosophy of Religion.

**OTHER DEVELOPMENTS.** A Delegacy for extra-mural classes established.

**EXTRA-MURAL WORK.** 12 Tutorial Classes given, attended by 258 students; 16 Extension Courses, attended by 358 students.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. J. C. Ransom, Prof. of English (Vanderbilt Univ., U.S.A.), was Visiting Professor at the College for one year.

**STUDENTS.** Full-time: total 473, including 55 graduates. Part-time: total, 176, including 10 graduates and occasional. Extra-mural (Tutorial and Extension Classes), 616. Summer School for Foreign Students, 1932, 150.

**DEGREES OBTAINED.** B.A., 28; B.Sc., 18; B.Sc. (Econ.), 1; LL.B., 3; M.A., 1; M.Sc., 3; Ph.D., 4.

# UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace THE DUKE OF PORTLAND, K.G., G.C.V.O.

VICE-PRESIDENTS—Alderman E. HUNTSMAN (Chairman of Council) ;  
GEORGE SPENCER, J.P. ; Alderman Major T. P. BARBER, D.S.O.,  
T.D., D.L., B.A., J.P. ; The Rt. Hon. LORD TRENT, Bart, J.P.

PRINCIPAL—HUGH STEWART, C.M.G., D.S.O., M.C., M.A. Camb.

REGISTRAR—J. E. SHIMELD, F.C.I.S.

LIBRARIAN—G. ELLIS FLACK, M.A.

## PROFESSORS, LECTURERS, ETC.

### *Biology*

Holden, H. S., D.Sc. Manc., F.L.S.  
(Bot.) Prof.

Lectrs. :

Bexon, Dorothy, M.Sc. Lond.  
(Bot.)

Barrington, E. J. W., B.A. Ox.  
(Zool.)

Hutchinson, Harriet J. (Physiol.  
and Histol.)

Ellis, Myfanwy, M.Sc. Wales  
(Bot.) Asst. Lectr.

Warden, Winifred M., B.Sc. Birm.  
(Biol.) Asst. Lectr.

### *Chemistry*

Kipping, F. S., Ph.D. Mun., D.Sc.  
Lond., F.I.C., F.R.S.

Sir Jesse Boot Prof.

Prideaux, F. B. R., M.A. N.Z.,  
D.Sc. Lond., F.I.C.

(Inorg. and Phys. C.) Reader.

Trotman, S. R., M.A. Camb.,  
F.I.C. (Appl. C.)

Sir Jesse Boot Lectr.

Firth, J. B., D.Sc. Manc., M.Sc.  
Durh., F.I.C., M.I.M.E.

Sr. Lectr.

Lectrs. :

Watson, F. S., M.Sc. Manc.

Driver, J. E., M.Sc., Ph.D. Lond.,  
A.I.C.

Laxton, F. C., B.Sc. Lond., A.I.C.  
Shaw, B. D., M.M., B.Sc., Ph.D.  
Lond., A.I.C.

Barber, H. H., B.Sc., Ph.D. Lond.,  
F.I.C.

(Bio-Chem.) Asst. Lectr.  
and Demr.

### *Classics*

Granger, F. S., D.Lit., M.A. Lond.  
Prof.

Barker, E. P., M.A. Ox., D.Litt.  
Durh. Reader.

### *Economics and Commerce*

..... Prof.  
Blythen, S., O.B.E., F.C.A.,  
F.S.A.A.

(Acctcy.) Pt.-time Prof.

Radford, A., B.Sc. Econ. Lond.  
(Econ.) Sr. Lectr.

Howard, S. C. (Comm.) Lectr.

Dutton, Margaret  
(Pract. Social Trg.) Hon.  
Tutor.

### *Education*

Wortley, H. A. S., M.A. Camb.  
Prof.

Sr. Lectrs. and Tutors :

Newton, W. H., B.Sc. Lond.

Lewis, M. M., M.A. Lond.

Becket, Edith M., M.A. Lond.

## ENGLAND

Moncrieff, Agnes, M.A. Edin.  
 Dallas, Adolphine E. M M., M A.,  
     B Sc Edin.                      Lectr.  
 Ward, Lizzie M                      Lectr.  
 Sumner, W. L., B Sc. Lond.  
     Lectr.

Asst. Lectrs. :

Stewart, A. H., B.A. Lond.  
Warden, Winifred M., B.Sc. Birm.  
Downing, S. F., B.A. Lond.  
And other pt.-time Lectrs in Art,  
French, Handicraft, Horticult.,  
Hyg., Music, and Phys. Trng.

*Engineering, Civil and Mech.*

Bulleid, C. H., O.B.E., M.A.  
 Camb., M.I.M.E. Prof.  
 Wilde, J. H., B.Sc. (Eng) Lond  
 (Civ. E) Sr. Lectr.  
 Dickson, J. M., B.Sc. Lond. (Mech.  
 E.) Sr. Lectr.  
 Robinson, J. G., Whit Ex (Draw-  
 ing and Design) Lectr.  
 Ruddick, W. Instr.

*Engineering, Electrical*

Cotton, H., M.B.E., D.Sc. Manc.  
Hd of Dept, Sr. Lectr.  
Golding, E. W., B.Sc. (Tech.)  
Manc. Lectr.  
Buckingham, H., B.Sc. (Eng)  
Lond. Demr.

English

Hewitt, R. M., M.A. Ox. Prof.  
Selby, Alice, M A. Camb. Sr. Lectr.  
Griffiths, G. S., M A. Wales, B.Litt. Ox. Lectr.

Lectrs. (Pt -time) .

De Castro, Inez, M.A. Ox.  
Peck, Mrs. Anne P. (Phonetics).

**Asst. Lectrs. :**

Stewart, A. H., B.A. Lond.  
Downing, S. F., B.A. Lond.

*French*

Weekley, E., M.A. Camb. Prof.  
Guigou, Marguerite C., L. ès L. Lectr.  
Lausanne  
Bourdache, E., B. ès L. Portiers  
Pt.-time Lectr.

## Geology and Geography

Swinnerton, H. H., D.Sc. Lond.,  
 A.R.C.S., F.G.S. (Geol.) Prof.  
 Richardson, W. A., B.A., D.Sc.,  
 B.Sc. (Eng.) Lond., F.G.S.  
 (Petrology) Hon. Lectr.  
 Clift, S. G., M.Sc. Lond., F.G.S.  
 (Geol.) Lectr.  
 Edwards, K. C., M.A. Lond.  
 (Geog.) Lectr.  
 Scarfe, N. V., B.A. Lond. (Geog.)  
 Asst. Lectr.

German

Schweizer, W. R., Ph.D. Berne  
Sr. Lectr.

*Greek, New Testament*

Granger, Prof F. S.                      Lectr.

Hebrew

Sanders, H. F., B A. Manc., D.D.  
McG. Pt.-time Lectr.

## History

Owen, L. V. D., M.A. Ox.    Prof.  
Oswald, F., D.Sc. Lond., F.S.A.  
(H. of Roman Brit.)

Hon. Reader.  
Brameld, Nina M., M A. Lond.  
Sr. Lectr.

Wood, A. C., M A., B Litt. Ox.  
Lectr.

*Italian*

Moroni, Flora      P't.-time Lectr.

*Law*

May, H. R. D., M.C., M.A., LL.B.  
Camb.

Hd. of Dept., Sr. Lectr.

Pt -time Lectrs. :

Cursham, C. (Real Property).  
Granger, Prof. F. S. (Roman L.).  
Brameld, Nina M., M.A. Lond.  
(Constit. Hist.).  
Howard, S. C. (Book-keeping).

## Mathematics

Piaggio, H. T. H., M.A. Camb.,  
                   D.Sc. Lond.                   Prof.  
 Green, H. G., M.A. Camb.

Sr. Lectr.  
Underwood, F., M.Sc. Lond. Lectr.  
Prior, L E., M.Sc. Lond.  
Asst. Lectr.

*Mining and Fuels*

- McMillan, W. H., B.Sc Glas,  
M.I Min E. Prof.  
Watson, J. M. R., B.Sc. Glas.,  
M.I Min E., Sr Lectr.  
Fawcett, E. S., B.Sc (Eng) Lond  
Asst Lectr.

*Music*

- Johnson, B., B.A., Mus B Camb,  
F.R.C.O.  
Hd. of Dept., Sr Lectr.

## Pt-time Lectrs. :

- Henniker, L., B Mus. Ox, F.R.C.O  
Hodgson, H. O., F.R.C.O  
Rosesblade, Emily G., L.R.A.M.  
Cooper, W. Gaze, L.R.A.M

*Pharmacy*

- Bentley, A. O., Ph.C., M.P.S.  
Hd. of Dept., Sr Lectr.  
Lectrs. .  
Driver, J. E. (Pharm. Chem.), v.  
Chem.  
Shaw, B. D. (Pharm. Chem.), v  
Chem.  
Trease, G. E., B.Pharm. Lond,  
Ph C, M.P.S. (Pharmacog-  
nosy).  
Turner, H. A., Ph.C., M.P.S.  
Stathor, Mrs. C. (Mat. Med.).  
Veness, B. R., B.Pharm. Lond.,  
Ph.C., M.P.S. Demr.

*Philosophy*

- Granger, Prof. F. S. (Hist of P.)  
Lectr.  
Sprott, W. J. H., M.A. Camb.  
(Logic and Psychol.) Lectr.

*Physics*

- Brose, H. L., M.A., D.Phil. Ox.,  
D.Sc. Adel., F.I.P.  
Lancashire-Spencer Prof.

Woodward, L. A., B.A. Ox, Ph.D.  
Leipz.

- Massey Sci Res Fellow.  
Davey, N., M.M., M.Sc. Lond.,  
A.R.C.S. Sr. Lectr.  
Franks, A. H., B.Sc. Lond. Lectr  
Browning, Helen M., M.Sc., Ph.D.,  
F.I.P. Lectr.  
Champion, F. C., B.A., Ph.D.  
Camb. Asst. Lectr

*Russian and Slavonic Languages*  
Lavin, J. Prof.

*Spanish and Portuguese*  
Chamberlain, G. L., M.A. Edin.  
Lectr.

*Textiles*

- Davis, W., M.A. Edin. Prof.  
Edwards, C. H., M.A. Camb.,  
A.T.I. Research Asst.  
Trotman, S. R., M.A. Camb.,  
F.I.C. (Dyeing and Finishing)  
Sr. Lectr., pt-time.  
Boswell, W. E., F.T.I. (Hosiery  
Manufac) Lectr.  
Lomax, J., F.I.C. (Yarn Testing)  
Lectr.  
Richardson, L. G. (Dyeing and  
Finishing) Asst. Lectr.  
Buckley, G. H., F.T.I. (Hosiery  
Manufac.) Asst. Lectr.  
Pollard, A., M.Sc. (Tech.) Manc.  
(Spinning and Weaving)  
Demr.

*Zoology, v. Biology**Adult Education*

- Peers, R., M.C., M.A. Liv. Prof.  
Wright, G. G. Neill, M.A., B.Ed.  
Edin. Asst. Director.  
Chambers, J. D., B.A., Ph.D.  
Lond. Sr. Staff Tutor.  
3 Staff Tutors, 2 Organizing Tutors.

ASSOCIATED COLLEGE: MIDLAND AGRICULTURAL COLLEGE, Sutton  
Bonington. Subjects for the Final Examn. for the London B.Sc. in Agric.  
are taken at this College, those for the Intermediate only being taken at  
Univ. College, Nottingham.

## GENERAL INFORMATION

The College was opened in 1881. The Faculties of Arts, Economics and Commerce, and Pure Science occupy the University Park Buildings. The Faculty of Applied Science occupies the Shakespeare Street Building.

**LIBRARY.** The Library of the College contains about 50,000 vols., amongst which are great series, such as Migne, Corpus Inscriptionum Latinarum, Inscriptiones Graecae, Calendar of State Papers, Rolls. There is a collection of about 1800 volumes of French Revolution and Napoleonic literature, which originally formed part of the Crawford Collection; and the Henry Mellish Meteorological Collection of 700 volumes. The Library also possesses 4 incunabula. Current periodicals number 251.

**COURSES:** For London External degrees in Arts, Econ., Com., Music, Div., Pure Science, Law, Med., Agric., Engin., and Mining; Diploma of the College in Comm., Geog., Adult Education, Engin., Elect. Engin., Mining, Mine Surveying, Fuel Technology (each 3 yrs); Social Study, Hosiery Manufacture, Dyeing and Finishing (each 2 yrs); Certif. in Music; Bd. of Educn. Elem. Teachers' Certif. and Cambridge Secondary Teachers' Certif.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Nat. Diploma of Inst. of Mech. Engineers; National Dipl. of Inst. of Elect. Engineers; Law Society's Exams.; Pharmacy Diplomas; Post-grad. and Research courses in all Faculties. Special English course for Foreigners.

*Evening Classes*, including some held on Thursday aftn. and Sat morning and aftn., for London B.Sc., B.Sc. Econ., B.Sc. Engin., B.A. Interim. Arts; Comm.; Dispensing and Pharmacy; Sanitary Science; Technology.

The session for Day Classes is Sept.-July; Evening, Sept.-April.

**ADMISSION.** Students under 17 not admitted without special permission of Principal. Students may be required to give satisfactory evidence as to character. All students residing outside the U.K. must apply before Aug. 1 and submit references as to character and educational qualifications.

**FEES.** Tuition composition, per annum: Degree or Diploma courses in Arts, Div., or Econ.—24 gs.; in other Faculties or for A.I.C. or A.I.P.—30 gs.; L.D.S.—18 gs.; Colliery Manager's Certif.—12 gs.; Pharmacy (complete course)—£30; Law—12 gs.; English course for Foreigners—£13:10s.; Registration fee, £1 p.a.; Union fee, £1:10s. p.a.

Evening Classes, £1 per session (in some cases remitted to deserving students needing help).

**RESEARCH SCHOLARSHIPS** in Arts up to the value of £50, Science up to the value of £100 are awarded annually. Special facilities for research in all subjects. See also App. XXIII. 17.

**RESIDENCE.** Lenton Hall (men) and Mapperley Hall, primarily for students in the Training Department. F.B. Hall, University Park and Broadgate House (women). Registered lodgings, 30s. to 40s. Students are, when possible, placed with private families.

**UNIVERSITY EXTENSION.** Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by an Asst. Director and 4 staff tutors, 2 organizing lecturers, and many part-time tutors and lecturers.

**PUBLICATIONS.** *Calendar* (Nov.), 2s. 6d.; *Prospectus* (Day), 6d., (Evening), 2d.; *The Gong*, 3 times a year; *Diary* (Oct.), 1s. 6d.

## THE YEAR 1931-32

**BENEFACTIONS.** A Legacy of £200 under the will of Mr. W. H. Booker. £100 to found a prize in memory of Robert Mellows, a well-known local historian. Woollen Research Association, Torridon, £100 p.a. for 3 yrs. Mrs. Massey and Mrs. Massey Stewart, £200 p.a. each for 3 yrs to found a Cancer Research Fellowship. £100 p.a. for 3 yrs. from Local Committee British Cancer Campaign towards the salary of a Bio-Chemist. £550 from Local Committee British Cancer Campaign for Equipment for Cancer Research. £330 for the purchase of special books. £100 for purchase of equipment (Dept. of Textiles) £200 Hosiery Section, Nottingham Chamber of Commerce, towards salary of a Research Chemist. £150 for special scholarships and prizes. £350 donations to the Dept. of Textiles. £150 for Photometric Equipment (Elec. Engin. Dept.). Grant of £250 from Northampton Borough Council.

**NEW DEVELOPMENTS.** Removal of the Elec. Engin. Dept. from Shakespeare St. to the Univ. Park Buildings. A Board of Social Studies instituted. Massey Scientific Research Fellowship founded and a Joint Cancer Research Committee set up.

**NEW POSTS.** Lectureships in Zool. and Bio-Chem.; demonstratorships in Elec. Engin., Pharmacy, and Textiles.

**RETIREMENTS.** Dr. L. G. H. Huxley, appointed Hd. of Dept. of Physics, Univ. College, Leicester. Mr. H. Lister (Zool.), appointed Science Master, Hanley High School, Staffs. Dr. Helen J. Crump (Education), Miss A. K. Adam (Education).

**EXTRA-MURAL WORK.** At the beginning of the session 1931-32 two organizing tutors were appointed, one to serve the Rural Areas of Derbyshire, and the other to develop pioneer adult education in East Nottinghamshire. A considerable number of pioneer lectures in other parts of the area were offered. The scheme was made possible by the generous co-operation of several L.E.A.'s, who made the following special grants—Nottinghamshire, £190, Derbyshire £150, Nottingham £50, Kesteven £50. During the session 48 three-year tutorial classes, 3 preparatory tutorial classes, 33 one-year classes, and 24 terminal courses, 13 short terminal courses, 22 University extension courses, 4 short University extension courses were held. The number of students attending these classes amounted to 2653.

**STUDENTS.** Full-time, 646; graduates, 65. Part-time and occasional, 372; graduates, 1. Evening students, 2095; graduates, 43. Extra-mural students, 2815; vacation courses, 117.

**DEGREES OBTAINED.** M.A., 2; B.A., 26; B.Sc.Econ., 1; B.Com., 1; B.Sc., 38; B.Sc.Engin., 10; M.Sc., 1; Ph.D., 2.

# UNIVERSITY COLLEGE, SOUTHAMPTON

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN,  
K.G., K.P., K.T.

PRESIDENT—CLAUDE G. MONTEFIORE, M.A., D.D., D.Litt.

VICE-PRESIDENT—Rt. Hon. LORD FORSTER OF LEPE, G.C.M.G.

TREASURER—W. F. PERKINS.

PRINCIPAL—KENNETH H. VICKERS, M.A.

REGISTRAR—GEORGE GRANT, B.A.

LIBRARIAN—Miss D. P. POWELL, M.A. Ox.

## PROFESSORS, LECTURERS, ETC.

### *Botany*

Mangham, S., M.A. Camb Prof  
Loader, Miss F. M., B.Sc. Lond

Lectr

Sparshott, Miss E. N., M.Sc. Lond.

Demr.

Johnson, C. G., B.Sc. Lond.

Demr.

### *Chemistry*

Boyd, D. R., D.Sc. Glas., Ph.D.  
Heid., F.I.C. Prof

Smith, A. E. Clarence, M.A. Camb,  
A.I.C. (Phys. C) Sr. Lectr

Lawson, A., B.Sc., Ph.D.

Asst. Lectr

Jeffery, G. H., B.Sc. Lond., A.I.C.  
Demr.

Pethrick, S. R., B.Sc. Lond.

Demr.

### *Classics*

Forsey, G. F., M.A. Lond. Prof.

Asst. Lecturers:

Holley, Miss N. M., B.A. Camb.

Duncan-Jones, A., B.A. Camb.

### *Economics and Commerce*

Ford, P., B.Sc. (Econ.) Lond.

Lectr. in Charge.

Hodgson, R. A., B.Com. Lond.

Asst Lectr.

### *Education and Philosophy*

Cock, A. A., B.A. Lond. Prof.

Dudley, G. G., B.A. Lond., L.L.B.  
R.U.I. (Logic) Sr. Lectr.

Lecturers:

Hales, Miss R. B., M.A. Ox.

Harry, H. T., B.Sc. Bristol.

Taylor, Miss D. M., B.A. Manc.

Asst Lectrs. (part-time):

Payne, H. (Phys. Training, Men).

Ricks, Miss E. M. (Phys. Training  
and Hyg., Women).

McKaug, G., M.R.C.S., L.R.C.P.  
(Hyg.).

Dove, A. G. (Handicraft).

Williams, S. D. (Handicraft).

### *Engineering*

Cave-Browne-Cave, Wing Com-  
mander T. R., C.B.E., R.A.F.

(retired), M.I.M.E., M.I.N.A.

Prof.

*Engineering, Civil* [Sr. Lectr.  
Mann, E. E., M.Sc. (Eng.) Leeds

### *Engineering, Electrical*

Spary, P. G., B.Sc. (Eng.) Lond.,  
M.Eng. Sheff., M.I.E.E.

Sr. Lectr.

Chester, C. E., B.Eng. Sheff. Lectr.

### *Engineering, Mechanical*

Glover-James, H., B.Sc. (Eng.)  
Lond., Dip. Eng. (Edin.)

Lectr.

## Asst. Lecturers :

Ford, G. P.  
 Moyle, R. C., M I.Mar.E.  
 Leech, H., Experim. Engineer.  
 Jenkins, W., Asst. Experim Eng  
*English Lang. and Lit.* [Prof.  
 Pinto, V. de S., M.A., D.Phil. Ox.  
 Lectrs. :  
 Leishman, J. B., M.A., B.Litt. Ox.  
 Potter, S., M.A. Lond., B Litt.  
 Ox., Ph D. Prag.  
 Phare, Miss E. E., B A. Camb.  
 Asst. Lectr.

*Geography*

Rishbeth, O. H. T., M.A Ox., B.A.  
 Adel. Prof.

## Lecturers :

Miller, Miss F. C., B A Leeds  
 Tavener, L. E., M.A. Camb.  
 Boswell, Miss K. C., B.A., B.Sc.  
 Lond. Asst. Lectr.

*Geology and Zoology*

Sherriffs, W. R., M.A., D Sc.  
 Aberd., F.L.S. Prof.  
 Anderson, F W., M.Sc. Leeds  
 Lectr.  
 Stott, F. C., B.Sc. Manc.  
 Asst. Lectr

Berry, J., B.A. Camb.  
 Avon Res Officer

*History*

Lyttel, Rev. E. S., M.A. Ox. Prof.

## Asst. Lecturers :

Rutherford, J., M.A. Durh., Ph.D.  
 Mich.  
 Tyerman, D., B.A. Ox.

*Law*

Cook, W. G. H., LL.D., M.Sc.  
 Lond. Reader.

## Asst. Lectrs. (part-time) :

Buchanan, R. D., B A. Camb.  
 Groves, L. G., LL.B Lond.  
 Stanier, J. G., LL.B Lond.

*Mathematics, Pure and Applied*

Howland, R C. J., M A Camb.,  
 D Sc. Lond. Prof.  
 Trout, Miss A. M., B A Lond.  
 Lectr.  
 Maunsell, F. G., M A., Ph D.  
 Camb. Lectr

## Asst Lecturers :

Casson, R, M.A. Camb.  
 Knight, R C, M Sc. Lond.

*Modern Languages*

Patchett, E. W., M A. Camb.,  
 O.I.P. Prof.  
 Lawton, H. W., M A Wales,  
 D ès L. Paris (French) Lectr.  
 Hamilton, Miss G. H.  
 (Spanish and French) Lectr.  
 Lucas, W. I., M.A. Brist.  
 (German) Asst. Lectr.  
 Ritz, J G, L ès L. Lyons Lecteur.

*Music*

Williams, D. C., F.R.C.O.  
 Lectr. in Charge.

*Philosophy*, v. Educn.*Physics*

Menzies, A. C., M.A. Camb., D.Sc.  
 Lond., F.I.P. Prof.  
 Tomlinson, H. J., B Sc. Lond.  
 Lectr.  
 Carpenter, L. G., B.A., B.Sc. Ox.  
 Lectr.

Weintroub, S., B.A. Ox.  
 Asst. Lectr.

*Zoology*, v. Geol.

## GENERAL INFORMATION

Founded 1850; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College under a scheme of the Board of Education, 1902.

The Library, 44,300 vols., includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

Classes in Arts, Science, Commerce, Engineering (Civ., Mech., and Elec.), Music, and Law prepare for the External degrees of the Univ. of London. It provides courses for Elem. and Secondary Teachers, for entrance into the



Civil Service, the first year of Med. Study, Pharmacy, Surveying, etc. It is recognized as a Training College for Elem. and Secondary Teachers. Through its Evening Classes (attended by upwards of 600 students) it performs the function of a Technical Institute. A Dept. of Law, instituted in 1923, is recognized as a Law School under the Solrs.' Act. The *Associateship* (Assoc. U.C.S.) implies, unless honorary, attendance at day or evening classes during at least one full session. *Diplomas* are awarded in Commerce, Engineering, Engin. Research, Geography, Advanced Geog., Law, and Music. Special Diploma in English for *foreign students*.

**ADMISSION.** Candidates aged 16 (though students are advised not to enter below 18) are admitted provided they (1) produce a satisfactory testimonial of good conduct from a headmaster, headmistress, or some other responsible person; (2) have either (a) passed or obtained exemption from a matric. examn. of the Univ. of London, or (b) passed the Entrance Examn. of the Coll.; or (c) hold such qualifications as Senate from time to time may recognize. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

Part-time students may in special circumstances be admitted to separate courses without passing the Entrance Examn.

**FEES.** The sessional fee is £25 for Courses in Arts, Commerce, and Music; £32 for Courses in Science and Engineering; and £30 for the Teachers' Diploma Course. Students whose parents are ratepayers within County Borough, Southampton—£18:15s., £22:10s., and £24 respectively.

**EXHIBITIONS AND SCHOLARSHIPS.** The Coll. offers annually 10 open Exhibitions (free tuition); 7 open Scholarships (£50 p.a.); the Seymour J. Gubb Scholarship (£50 p.a.); the Alex Hill Memorial Scholarship (£50 p.a.); and the John Scott-Montagu Scholarship (£50 p.a.), all tenable for 3 yrs.

**SCHOLARSHIPS FOR GRADUATES.** Post-graduate Research Scholarships to the value of £250 p.a. are offered annually, the maximum value of any one scholarship being £150. One of instruction fees in Educn. Loan fund for senior students.

**RESIDENTIAL FACILITIES.** South Stoneham Hall of Residence for men; Warden—Prof. A. A. Cock, B.A. New Hall, a Hall of Residence for men; Warden—Dr H. W. Lawton, M.A. Highfield Hall, a Hall of Residence for women; Warden—Miss J. Carpenter, M.A.

**PUBLICATIONS.** *Calendar* (Sept.), free; Halls of Residence Prospectus, free; *Students' Magazine*, 6d.; *Wessex Magazine* (June), 1s. 6d. annually.

## THE YEAR 1931-32

**BENEFACTIONS.** Gifts to the Appeal Fund, £4999:8:2.

**NEW BUILDINGS.** Considerable additions made to the Engineering buildings, viz. new workshops, and a new boilerhouse for heating the College buildings by oil instead of coke; cost, £8000.

**NEW POST.** Avon Research Officer in Zoology.

**NEW DEPARTMENT.** Navigation.

**RESIGNATIONS.** Mrs. G. F. Forsey, Librarian. Mr. H. H. Cawthorne, B.Sc. (Educn.). Prof. H. Stansfield (Physics), retired. Miss M. J. Steel (Educn.), retired.

**STUDENTS.** Full-time: total, 484, including 62 graduates. Part-time: total, 140, including 2 graduates (day classes). Part-time: total, 621 (evening classes).

**DEGREES OBTAINED.** B.A. Hons. 25, Pass 4; B.Sc. Special, Hons. 4; B.Sc. General, Hons. 2, Pass 7; B.Sc. Eng., Pass 6; LL.B., Pass 1.

# ST. DAVID'S COLLEGE, LAMPETER

VISITOR—THE RT. REV. THE BISHOP OF ST. DAVID'S.

PRINCIPAL—REV. CANON MAURICE JONES, D.D. Ox

The College was founded in 1827 for the purpose of affording to persons intended for the Ministry of the Church, especially in Wales, a sound and liberal education on the lines of that offered by the older Universities. Incorporated by Royal Charter, it is empowered to confer degrees in Arts and Theology. Residence for nine full terms and the passing of three examns. conducted by examiners appointed by Oxford and Cambridge are requisite for B.A., ten terms for B.D.

PROFS.—*Theol. and Greek*, The Principal; *Science*, J. C. Evans, M.A. Ox.; *Latin*, . . . . .; *Engl. and Phil.*, H. Walker, M.A., LL.D. Ox. and Glas., D.Litt. Wales; *Welsh*, Rev. R. H. Richards, M.A. Ox.; *Hebrew and Theol.*, Rev. A. E. Morris, M.A. Ox., B.A.

LECTRS.—Dawson, D, B.A. Leeds, M Litt. Camb. (*Hist.*); Morgan, Rev. Wm. H., B.D. Lond., B.A. (*Theol.*); Harris, H. A., M.A. Ox. (*English and Classics*); Rowlands, Rev. E. C., B.A. Camb. (*Classics*); Thomas, Rev. Canon D. W., M.A. Ox., B.A. (*Pastoral Theol.*), Hon. Lectr.; David, Rev. F. J. T., B.A. Lamp. and Ox. (*Hist. and Theol.*).

SCHOLARSHIPS. The Dillwyn Llewelyn Trust provides £150 p.a. from which scholarships are granted to students proceeding to Oxford or Cambridge under the Affiliation regns. The Evan Jones scholarship in Hellenistic Greek is tenable by a post-grad. student.

ADMISSION. Candidates can be matriculated (1) on the result of the Coll. Scholarship Examn. provided they have passed in English, Elem. Maths., and two other subjects specified for matricn.; (2) on a certif. of any matricn. examn. of a U.K. Univ. or any certif. exempting from Oxford Responsions or Cambridge Previous examn.; (3) on the School Certif. of the Ox. and Camb. Schools Examn. Bd. or the Central Welsh Bd. or Ox. and Camb. Local Examns. in English and Maths. (with credit), and any two subjects of the Coll. matricn. examn.; (4) on passing the Coll. matricn. examn. in Engl. Essay, Engl. Hist., Maths., and any two of—Latin, Gk., Engl. Lit., Welsh, French, German, Addnl. Maths., Phys. Sci. Further particulars from the Principal.

POST-GRADUATE STUDY. Grants amounting to £450 p.a. for post-grad. students in Theol. are offered to grads. and licentiates of the Coll. and to grads. of any recognized Univ. seeking ordination in the Church of Wales.

LICENTATE IN DIVINITY. A Licentiate in Divinity is conferred on students admitted to a biennial course (mainly theological) on a certif. from a Bishop.

DIPLOMA IN THEOLOGY. A Dip. in Theol. is granted to grads. of the Coll. or of any Univ. who reside for 2 yrs. and pass the necessary examns. after qualifying for their Arts degree. The Dipl. is accepted as an alternative to the Genl. Ordination Examn. of the Church of England.

STUDENTS, 189, including 12 graduates.

DEGREES. B.A., 60; B.D., 3.

# THE SCOTTISH UNIVERSITIES

ST. ANDREWS  
GLASGOW

ABERDEEN  
EDINBURGH

## REPRESENTATIVES IN PARLIAMENT

JOHN BUCHAN, LL.D.; DUGALD M'COIG COWAN, M.A., LL.D.;  
A. NOEL SKELTON, B.A.

IN CONSTITUTION these 4 Universities have, under the operation of the Univs. (Scotland) Acts 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed to the Principalship by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain elected Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the

Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament*.

**FACULTIES.** In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin. only—Music. In Glas. and Aberd.—Engineering (Edin. and St. And. have departments and offer degrees in Engineering, although not a separate Faculty).

**TERMS.** The academic year is divided into three terms—Oct. to Christmas, Jan. to latter part of March, April to end of June or early July.

**ADMISSION.** See Appendix XXII.

**DEGREES** and courses leading thereto (v. also p. 10). The *M.A.* (ordinary) course (there is no *B.A.*) extends over 3 yrs. and includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist. and Law. (There are further restrictions at St. Andrews and Edinburgh.) A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and exams passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And. and Edin., 1 yr.) are attended and the Degree exams. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. For *M.A.* (Hons.) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the *M.A.* either before or along with it. The standard of the Final examn. is that of the *M.A.* Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the *M.A.*, after courses covering at least 9 terms.

The *B.Ed.* or *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying in part for their certificates.

The *B.Sc. in Pure Science.* The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs.) and includes from 6 to 9 courses, of

which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

*The B.Sc. in Applied Science* can be obtained as follows: Engineering (St. And., ord. and hons., 3 yrs.; Edin., ordinary and honours, both 3 yrs.; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archt.; Aberd., ordnance in preparation). Mining Engineering (Edin., ordinary and honours, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs.). Technical Chemistry (Edin., ordinary and honours, 4 yrs.). Architecture (Glas., honours, 4 yrs.). Agric. (Aberd., Edin., and Glas., ordinary, 3 yrs.; honours, 4 yrs.). Forestry (Aberd., ordinary, 3 yrs.; Edin., ordinary, 3 yrs.; honours, 4 yrs.). Pharmacy (Glas., 3 yrs.). Public Health (Glas., 18 months after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

*Higher Degrees in Arts and Science.* The D.Sc. in Pure Science, in Engin. (Edin., Glas., St. And.), Pub. Health (Glas.), Mining (Edin.), Tech. Chem. (Edin.), Agric. (Edin.), Forestry (Edin.), and Vet. Sc. (Edin.), and the D.Litt. are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

*Divinity.* The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

*Law* The B.L. course (3 yrs.) is open to students who have passed the Prelim. or its equivalent. Candidates for the degree must produce evidence of a sufficient knowledge of Latin before entering the Class of Civil Law. The LL.B. (3 yrs.) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees.

The LL.D. is honorary.

*Medicine.* Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd., Edin., and

St. And. extend this concession to courses and exams in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med.; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospital, or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or, for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

*Ph.D.* See p. 14.

**FEES.** The Matriculation, 2½ gs. *p. a.* at the Univs. of St. And., Glas., and Edin.; 2 gs. *p. a.* Aberd.; inclusive Tuition fees *per annum* in Arts are 15 gs. in Science, 25 to 35 gs.; examn. fees for M.A., 7½ gs.; B.Sc., 9 gs.; Divinity, 7½ gs.; Law, 9 gs.; M.B., Ch.B., 33 gs.; graduation, £1. Further information is given in the several Univ. sections.

**RESEARCH OR SPECIAL STUDY** may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

**APPOINTMENTS COMMITTEES** have been constituted in all the Univs. to help students to find employment.

**SCHOLARSHIPS.** Provision for affording Univ. instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the Carnegie Trust benefactions (*v. infra*) and the numerous bursaries, etc., awarded by the Universities and the Trustees of unattached educational endowments, all Scottish Education Authorities make provision in their Bursary Schemes for assisting duly qualified persons resident in their areas, and needing such assistance, to attend a University, Training College, Central Institution, etc. The sum so spent by Education Authorities in the financial year 1930-31 was £139,000.

*Scholarships, etc., for Graduates.* The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £110 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £200 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£230 for 3 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Black—in Greek, £196 for 1 yr. for graduates in Arts distinguished in the B.D. exams. (6) Hume Brown—in Scottish History, £90 for 1 yr. for graduates in Arts; managed by the Univ. of Edin. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry

of the Church of Scotland; managed by the Univ. of Glasgow. (8) Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang (Science), Endowment of £3000 for Hons. Graduates in Arts or Science; managed by Edinburgh.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, 22 Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.D.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A) (v. App. XXIII. 1). Instns. in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial edn. of Univ. level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. with a minimum of three higher grade passes and bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has not obtained three higher grade passes or who has to pass any further prelim. examn. before completing his graduating curriculum. Class Fees paid for 1931-32: St. Andrews—£4494 for 322 beneficiaries; Glasgow—£29,879 for 2359; Aberdeen—£8952 for 616; Edinburgh—£14,293 for 1092.

The annual report of the Executive Committee contains reports of experts on the work of beneficiaries under the Research Scheme and lists of papers published by them. Research Fellowships, Scholarships, and Grants awarded for 1931-32: St. Andrews—31, value £4710; Glasgow—38, value £5364; Aberdeen—20, value £2512; Edinburgh—30, value £3679. Total—119, £16,265.

Under a Sixth Quinquennial Scheme of Distribution for the period from Oct. 1, 1930, to Sept. 30, 1935, there has been allocated a sum of £259,025, distributed thus: St. Andrews centre—£43,000; Glasgow—£79,850; Aberdeen—£57,350; Edinburgh—£78,825.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, and meets in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs. discuss matters of general interest to them all. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman. The convener of the International Academic

Committee of each Univ. who is the permanent Secretary's assistant in each Univ. (v. p. 4) also attends, and each Univ.'s UNIONS and Students' magazine are represented. The President and Secretary of the Conference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. The 38th Conference was held at Edinburgh in 1932.



# UNIVERSITY OF ABERDEEN

CHANCELLOR—The Right Hon. BARON MESTON OF AGRA AND DUNNOTTAR, K.C.S.I., V.D., LL.D., Hon. M.D. Zur.

VICE-CHANCELLOR AND PRINCIPAL—Very Rev. Sir GEORGE ADAM SMITH, M.A., LL.D., D.D., Litt.D., F.B.A

RECTOR—Sir ARTHUR KEITH, M.D., LL.D., F.R.C.S., F.R.S.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY TO THE UNIVERSITY—H. J. BUTCHART, D.S.O., B.L.

CLERK, REGISTRAR OF GENERAL COUNCIL, AND LIBRARIAN—W. D. SIMPSON, M.A., D.Litt.

## PROFESSORS, LECTURERS, ETC.

*Accounting & Business Methods*

Reid, J., M.A., C.A. Lectr.

Grant, John, M.A., C.A.

Asst. (Agric. Book-keeping).

*Agriculture, v. infra*

*Anatomy, v. also Embryol.*

Low, Alexr., M.A., M.D. Reg. Prof.

Mitchell, G. A. G., M.B., Ch.B.

Lectr.

Whyte, A. G. D., M.A., M.B., Ch.B.

Asst.

Robb, D. B., M.B., Ch.B. Asst.

Fowler, A. C., M.D., D.M.R.E.

Part-time Asst.

*Art, v. Fine Art*

*Astronomy and Meteorology*

Roberts, Owen F. T., M.C., M.A.

Camb.

Lectr.

*Banking*

Cowie, R. H. Pt.-time Lectr.

*Bio-Chemistry*

Beard, E., B.Sc. Edin. Lectr.

*Biology, v. Nat. Hist.*

*Botany*

Craib, W. G., M.A. Reg. Prof.

Downie, Dorothy G., B.Sc., B.Sc.

For. Edin., Ph.D. Chic. Lectr.

Fletcher, H. R., B.Sc. Manc.

Asst.

Clamp, Gertrude, B.Sc. Lond.,

Ph D.

Asst.

*Celtic and Comp. Philology*

MacDonald, John, M.A. Reader.

*Chemistry, v. also Agric.*

Findlay, Alexr., Ph.D. Leip., M.A.,

D.Sc.

Prof.

Gray, F. W., M.A., D.Sc. Lectr.

Reade, T. H., M.Sc. Birm., M.A.

Camb.

Lectr.

Humphries, J. E., M.Sc. Wales,

B.A. Lond. and Camb., Ph.D.

Lond., D.Sc.

Lectr.

Assistants:

Strathdee, R. B., Ph.D. Camb.,

M.A., B.Sc.

Martin, A. R., B.Sc., Ph.D. Lond.

Mills, A. K., B.Sc., Ph.D. St. And.

*Chemistry, Clinical*

Lyall, Alex., M.A., M.D. Lectr.

*Classics*

Cameron, A., M.A. Glas., B.A. Ox.

Reg. Prof. (Greek).

Wood, Margaret, B.A. Camb., M.A.

Asst. (Greek).

Mackay, Isabel S., B.A. Camb.,

M.A.

Asst. (Greek).

Souter, A., M.A. Aberd., Ox.,

Camb., D.D. St. And., D.Litt.,

F.B.A.

Reg. Prof. (Humanity).

Assistants (Latin) :

Laing, K. M., B.A. Camb., M.A.  
 Getty, R. J., B.A. Belt, Camb.  
 Addison, C. J. S., M.A. Edin.  
 Middleton, G., M.A. Camb., D.Litt.  
 (Part-time).

*Divinity*, v. Theol.

*Economics*, v. Pol. Econ.

*Education*

Walker, Norman T., M.A., Ed.B.,  
 Ph.D. Glas. Lectr.  
 Morton, D. M., M.A., B.Sc. Glas.  
 Asst.

*Embryology*

Purser, G. L., M.A. Camb. Lectr.

*Engineering* [Jackson Prof.]

Blackadder, W., D.Sc. Edin.  
 Stewart, F. R., B.Sc. (Eng.) Glas.  
 Asst. (Agric. E.).

Cruickshank, A. Asst. „ „  
 Chisholm, J. A. Asst. „ „  
 Orkney, J. C., B.Sc. (Eng.) Glas.  
 Lectr. (Elec. E.).

Edmond, A. D., B.Sc. (Eng.) Lond.  
 Lectr. (Mech. E.).  
 Grassie, J. C., B.Sc. (Eng.) Glas.  
 Asst. (Forest E.).

*English*

Jack, A. A., M.A. Glas., I.L.M.  
 Camb., LL.D. Glas.  
 Chalmers Prof. of E. Lit.

Taylor, W. D., M.A. Glas.  
 Lectr. (E. Lit.).  
 Murison, W., M.A.

(Part-time Asst.).

*Fine Art*

Pt.-time Lectrs. :

Rollo, R. Leslie, A.R.I.B.A. (Prin-  
 ciples and Hist. of Archt.).  
 Townend, H., M.A. (Painting).  
 Swanson, W. (Music).

Laird, Prof. J. (Theory of Art).  
 Harrower, Emer. Prof. J., M.A.,  
 LL.D. Lectr. (Sculpture).

*Fisheries, Scientific Study of*

Bowman, A., D.Sc. Lectr.

*Forestry*, v. also Engin.

Borthwick, A. W., O.B.E., D.Sc.  
 St. And. Prof.

Fraser, G. K., M.A., D.Sc., B.Sc.  
 (For.) Lectr. in Soils.

Lang, E. V., M.A., B.Sc. (For.),  
 D.Sc. Asst.

Laidlaw, W. B. R., B.Sc. (For.)  
 Edin., D.Sc. Asst.

*French*

Roe, F. C., M.A. Birm., L. ès L.  
 Lyons, D. de l'U. Paris Prof.

Wolledge, B., M.A. Leeds, D. de l'U.  
 Paris Lectr.

Mackay, Mona E., M.A. Asst.  
 Chrétien, P., L. ès L. Bordeaux  
 Asst.

Lentz, E. E. Part-time Asst.

*Geography*

McFarlane, J., M.A. Edin., Camb.,  
 M.Com. Manc. Reader.

Bremner, A., M.A., D.Sc. Edin.  
 Asst.

*Geology*

[Kilgour Prof.]  
 Gibb, A. W., M.A., D.Sc.  
 Smith, J. E., B.Sc. Asst.

*German*

Yates, D., M.A. Birm., D.Phil.  
 Bresl. Reader.

Oakey, A., B.A. Birm. Asst.  
 Witte, W., Dr. der Pol. Bresl.

Asst.

*Hebrew and Semitic Langs.*

Kennedy, Rev. A. C., B.D.  
 Reg. Prof.

*History*, v. also Law, Theol.

Black, J. B., M.A. Glas. and Ox.  
 Burnett-Fletcher Prof.

Henderson, J. M., M.A. Edin.  
 Lectr. (Brit. Hist.)

Gavin, Catherine I., M.A., Ph.D.  
 Asst.

*Law*, v. *infra*

*Logic*

Ferguson, A. S., M.A. St. And.  
 and Ox. Reg. Prof.

Knox, G. L., M.A. Ox. Asst.

*Mathematics*

Macdonald, H. M., O.B.E., M.A.,  
 F.R.S. Prof.

Goodwillie, J., M.A. Camb. and  
Edin., B.Sc. Edin.

Lectr. & Asst

Lawrence, J. T., B.A. Camb., M.A.  
Asst.

*Medicine, v. infra*

*Meteorology, v. Astron.*

*Natural History*

Ritchie, J., M.A., D.Sc. Reg. Prof.

Neill, R. M., M.C., M.A. Glas.

(Zool.) Lectr.

Ratcliffe, F. N., B.A. Ox.

(Zool.) Asst.

Jones, E. P., B.Sc. Wales

(Zool.) Asst.

*Philology, Compar., v. Celtic*

*Philosophy, Moral*

Laird, John, M.A. Edin., B.A.  
Camb. Reg. Prof.

*Philosophy, Nat.* [Prof.]

Carroll, J. A., M.A., Ph.D. Camb.

Geddes, A. E. M., O.B.E., M.A.,  
D.Sc. Lectr.

Griffith, H. D., B.A. Camb. Lectr.

White, Paul, B.A., Ph.D. Camb.  
Asst.

Jackson, W. W., M.Sc. Manc.  
Asst.

Goodall, J., M.A. Asst.

*Physiology* [Reg. Prof.]

Macleod, J. J. R., D.Sc. Tor.,  
LL.D., M.B., Ch.B., F.R.S.

Peterson, J. M., B.Sc., B.Sc. (Agr.).  
(Expl. P.) Lectr.

Magee, H. E., B.Sc., M.B., B.Ch.  
Belf., D.Sc.

(Nutrit. Physiol.) Lectr.

Bell, D. J., B.Sc. Glas., Ph.D. St.  
And. Asst.

Noltie, H. R., M.A., B.Sc. Asst.

Orr, J. B., D.S.O., M.C., M.A.,  
D.Sc., M.D. Glas.

Research Lectr. (P. of Nutrition).

*Political Economy*

Gray, A., M.A. Edin. Jaffrey Prof.

Macdonald, Annie, M.A. (Lectr. in  
Pub. Finance) Asst.

Hamilton, H., M.A., D.Litt. Glas.

(Econ. Hist.) Lectr.

*Psychology, Comparative*

Knight, A. R., M.A. Syd. and  
Camb. Anderson Lectr.

*Spanish*

Davidson, C., M.A. Lectr.

*Statistical Methods*

Tocher, J. F., D.Sc. Croll Lectr.

*Theology*

Baird, A. C., M.A., D.D., B.Sc.  
Glas (Bibl. Crit.) Reg. Prof.

Henderson, G. D., M.A., B.D.,  
D.Litt. Glas (Church Hist)

Reg. Prof.

Thomson, G. T., B.A. Ox., M.A.,  
B.D. Edin (Systematic T.)

Prof.

..... Gifford Lectr.

*Zoology, v. For., Nat. Hist.*

### Agriculture

(v. also Engin. and *infra* North of  
Scotland Coll. of Agr.)

Hendrick, J., B.Sc. Lond.

Strathcona-Fordyce Prof.

Profeit, W. J., M.A., B.Sc. (Agr.)  
Lectr.

Donald, G., B.Sc. (Agr.) Asst.

Findlay, W. M. (Seed Testing)  
Asst.

*Agric. Chemistry* [Asst.]

Hill, Alfred, B.Sc., B.Sc. (Agr.)

Moore, W., B.Sc., B.Sc. (Agr.)  
Asst.

*Agricultural Law*

Wilson, N. J., M.A., LL.B. Asst.

*Soil Science*

Ogg, W. G., D.Phil. Camb., M.A.,  
B.Sc., B.Sc. (Agr.)

Research Lectr.

*Veterinary Hygiene and Agr.*

*Bacteriology*

Grant, J. C., M.R.C.V.S. Lectr.

### Law

Stuart, A. M., K.C., LL.B. Edin.,  
M.A. Prof.

Shewan, F. G. D., M.A., LL.B.  
Pt-time Asst.

Marshall, K., M.A., LL.B. Tutor

*Constt. L. and Hist.*

Williamson, R. M., LL.B. Edin.,  
M.A. Lectr.

*Conveyancing*

Morrison, A. C., O.B.E., M.A. St.  
And., LL.B. Glas. Prof.

*Internat. L., Public and Private*

Duncan, G., M.A. Lectr

*Mercantile Law*

Esslemont, W. D., M.A., B.L.  
Lectr.

*Procedure and Evidence*

Edwards, J. H., M.A., LL.B.  
Clark Lectr.

*Roman Law*

Masson, R. P., M.A., LL.B. Lectr.

*Medicine*

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Bacteriology*

Cruickshank, J., M.D. Glas. Prof.  
Croll, J. M., M.B., Ch.B., D.P.H.  
Asst.

*Forensic Med.*

..... Prof.  
Richards, R., M.A., M.D.,  
F.R.C.S.E. Lectr.  
Williamson, G., M.A., M.B., C.M.  
(Med. Ethics) Lectr.

*Materna Medica*

Campbell, D., M.C., M.A., B.Sc.,  
M.D. Glas. Reg. Prof.  
Morgan, T. N., M.B., Ch.B. Asst.  
Hendry, A. W., M.D.  
Pt-time Asst.

*Medicine*

Davidson, L. S. P., B.A. Camb.,  
M.D. Edin., F.R.C.P.E.  
Reg. Prof.  
Johnston, J., M.B., Ch.B. (Anæ.)  
Lectr.  
Mackenzie, J. R., M.D. (Anæ.)  
Lectr.

Anderson, A. G., M.A., M.D.,  
F.R.C.P. (Clin)

Pt-time Lectr  
Croll, W. F., M.A., M.D. (Clin)

Lectr.  
Fullerton, H. W., M.A., M.B.,  
Ch B. Asst

Craig, J., M.B., Ch.B.  
Part-time Asst.

*Midwifery* [Reg. Prof.  
McKerron, R. G., M.A., M.D.

Semple, R., O.B.E., M.D.  
Part-time Asst.

*Ophthalmology*

Souter, W. C., D.O. Ox, M.D.  
Lectr.

Galloway, A. R., O.B.E., M.A.,  
M.B., C.M. Lectr.

*Pathology* [Wilson Prof.  
Shennan, T., M.D. Edin.

Gray, J., M.D.  
(Morbid Anat.) Lectr.

Cran, B. S., M.D. Asst.

Evans, W. G., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P. (Malignant Dis.)

Georgina McRobert Lectr.  
and Radium Officer.

*Public Health*

Rae, H. J., M.C., M.A., M.B.,  
Ch.B., D.P.H. Pt-time Lectr.

Berry, D. W., M.D., D.P.H. Lectr.

Merewether, Edward R. A., M.D.  
Durh. Lectr.

Peterkin, H., M.A., M.B., Ch.B.  
(Diseases of the Ear, Nose,  
and Throat) Lectr.

Brown, J., M.B., Ch.B., D.P.H.  
(Vaccination) Lectr.

Brown, R. D., M.D. Edin.,  
F.R.C.P.E. (Mental Diseases)

Lectr.  
Anderson, T. E., M.D. (Diseases  
of the Skin) Pt-time Lectr.

Bowie, F. J. T., M.B., Ch.B.,  
D.P.H. (Ven. Dis.)

Pt-time Lectr.

<i>Radiology and Electro-Therapeutics</i>	Mitchell, A., M.A., Ch.M. (Diseases of Children) Lectr
Connon, M., M.D., D.P.H.	Brown, W., O.B.E., M.B., Ch.B. Edin., F.R.C.P.E. Lectr
Pt-time Lectr.	
<i>Surgery</i>	<i>Tropical Medicine</i>
Learmonth, J. R., M.B., Ch.M.	Williamson, G. A., D.T.M. Liv. M.A., M.D. Lectr
Glas., F.R.C.S.E. Reg. Prof.	
..... Asst.	<i>Tuberculosis</i>
Bruce, G. G., M.B., Ch.B., F.R.C.S.	Banks, G. S., M.B., Ch.B., D.P.H. Edin. Lectr
Asst.	
Smith, F. K., M.A., M.B., Ch.B. (Clin.) Lectr.	Director of Physical Training
Colt, G. H., M.A., M.B., B.Ch. Camb., F.R.C.S. (Clin.) Lectr.	Brocks, Capt. A. W., M.C., M.B.E. Asst
	Campbell, Mrs. E. M.

## ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. XXIV. p. 814  
 Director of Studies and Research—J. Hendrick, B.Sc., F.I.C., Strathcona  
 Fordyce Prof. of Agric. and Lectr. in Agr. Chem. The Univ. Lectrs. and  
 J. Anderson, M.A., B.Sc., Ph.D., *Bee-keeping*; G. E. Greenhow, *Hortic.*  
 G. A. Williamson, M.A., M.D., D.P.H., *Trop. Hyg.*; 1 Advisory Officer, 1 Agr.  
 Economist, 11 Assts., 4 Demrs., 14 County Organizers.

ROBERT GORDON TECHNICAL COLLEGES.

## GENERAL INFORMATION, v. also pp. 288 ff.

The "University and King's College of Aberdeen," founded under a Papa Bull in 1494, and the "Marischal College," founded in 1593 by George Keith Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 Incunabula some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archaeology. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. rs.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with depts. of Physiol., Bio-Chem., Bacteriol. and Pathol., and attached Animal Husbandry section for practical experiments in feeding, etc. (v. App. XXIV.). It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 366 beds; Children's, 132; Fever 350; Mental Hospital, 900; Maternity Hospital, 32; Ophthalmic Institution, 5

FACULTIES. Arts, Science, Divinity, Law, Medicine. *Deans*: Profs Gray, Borthwick, Henderson, Stuart, Macleod.

Departments: Commerce, Education.

ADMISSION and ADVANCED STANDING. v. Appendix XXII.

DEGREES, ETC., v. also pp. 289 ff. Diplomas are conferred in Public Health (D.P.H.) and in Fine Art (History and Theory). A Cert. in Fine Art and Cert. in Educ. are also granted.

**FEES** (v. Carnegie Trust, p. 292). Inclusive fees for tuition : B.D., 40 gs. ; LL.B., 40 gs. (28 gs. for a M.A. of the Univ.) ; B.L., 30 gs. ; M.A. and B.Sc. taken together, 112½ gs. ; M.A. (Hons.) and B.Sc. taken together, 127½ gs. ; M.A. and B.Com., 75 gs. ; B.Sc. and B.Com., 112½ gs. ; M.B., Ch.B., 126 gs. ; M.A., M.B., Ch.B., 156 gs. ; M.A. (Hons.), M.B., Ch.B., 156 gs. ; B.Sc., M.B., and Ch.B., 168 gs. ; M.A., B.Sc., M.B., and Ch.B., 202 gs. ; M.A. (Hons.), 60 gs. ; B.Com., 45 gs. ; B.Sc. (Pure Science, Agriculture, Forestry, and Engineering), 90 gs. ; B.Sc. (Hons.), 100 gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £242. The degree fees for the Doctorates are from 10 to 20 gs. The class and examn. fees for the D.P.H. are 36 gs. ; for the Dipl. in Hist. and Theory of Fine Art, and for the Cert. in Fine Art, 8 gs. and 15 gs. respectively.

**SCHOLARSHIPS, ETC.**, for graduates (v. also pp. 291-2), about 25 ; aggregate annual value about £1600. *Travelling Scholarships* : Anderson, for medical graduates, about £200 p.a. ; Kilgour, £250 for graduates in Natural Science or Natural History ; Robbie, £100 p.a. in Maths, Nat. Philos., and Chem. ; John Stephen, £90 p.a. in Econ. for 2 yrs. ; Yuill, £150 for 1 yr., renewable in Indust. and Agr. Chem. *Travelling Fellowship* : Wilson, for archaeological research in the Near East, £300 p.a. for 2 yrs. Particulars obtainable from Sec. to Wilson Trustees, A. Martineau, Golden Square, Aberdeen ; George Thompson, in Med., for 2 yrs. (1st yr. abroad)

**RESIDENCE.** List of lodgings kept by Students' Repve. Council.

**APPOINTMENTS COMMITTEE.** There is a Committee which advises students as to preparation for entrance to various Government Services. All communications to be addressed to *The Secretary*.

**PHYSICAL WELFARE OF STUDENTS.** There is a Dir. of Phys. Tg., with a woman asst. for women students.

**PUBLICATIONS.** *Calendar* (Sept.), 4s. ; *Univ. Review*, 7s. 6d. p.a. (3 issues) ; *Students' Handbook* (Nov.), 1s. ; *Alma Mater* (organ of S.R.C.) ; *Univ. Libr. Bulletin*, 2s. 6d. p.a. (2 issues).

## THE YEAR 1931-32

**BENEFACTIONS.** Mrs. Matilda Murray or Rezin, bequest for bursaries in Sci., £2000 ; Miss Helen Jane Wilson, bequest for bursary in Med., £472 : 10s. ; Miss M. Davidson Smith, for prize in Diseases of Children, £100 ; William Walker, bequest of books and documents for Library ; R. W. Davies, estate of Aldroughty, Elgin, including furniture and stock, etc., for demonstrations and experiments in Agric. and Forestry ; balance of funds raised by friends of the late P. J. Anderson for P. J. Anderson Memorial Lectureship, £346 : 11 : 10 ; George S. Middleton, further for General Purposes, £140 ; the Carnegie Trust : Library (books), £1000 ; Feu-duty, Powis Lodge, Old Aberdeen, £156 : 8 : 10 ; towards new Medical Buildings, £4220 : 17 : 4 ; towards salaries of Carnegie Teaching Fellows, £1058 : 6 : 8.

**NEW POSTS.** Lectr. : Soil Science. Assts. : Chemistry ; Zoology.

**DEATHS.** James E. Crombie, Chancellor's Assessor, University Court ; Prof. James Gilroy (Hebrew and Semitic Langs.) ; Prof. F. S. Shears (French) ;

Emer. Prof. H. A. Cowan (Church Hist.); Emer. Prof. Matthew Hay (For Med.); R. A. Linscott (French).

RESIGNATIONS. Prof. Sir John Marnoch (Surgery); George Smith, General Council Assessor, University Court; C. C. Abbott (Engl. Lang.); Thomas Fraser (Chn. Med.); M. Casati (French).

HONORARY DEGREES. *D.D.*—Alexander Cruickshank, Edmund Arbuthnott Knox, Thomas Meikle Watt. *LL.D.*—John J. Abel, Sir Buckston Browne, John Graham Callander, James Clark, William Grant, John Harrower, Desmond MacCarthy, Walter A. Reid.

STUDENTS. Total, 1252.

DEGREES. M.A., 152; D.Sc., 3; Ph.D., 6; B.Sc., 26; B.Sc. (Agr.), 6; B.Sc. (For.), 8; B.Sc. (Eng.), 11; B.Com., 3; LL.B., 7; B.L., 2; M.D., 11; M.B., Ch.B., 43; Certificate in Fine Art, 1; Diploma in Public Health, 9.

# UNIVERSITY OF EDINBURGH

CHANCELLOR—Sir JAMES MATTHEW BARRIE, Bart, O M, M.A., LL.D

VICE-CHANCELLOR AND PRINCIPAL—Sir THOMAS H. HOLLAND, K C.S.I  
K C.I.E., LL.D., D.Sc, F.R.S.

RECTOR—Genl Sir IAN S. M. HAMILTON, G C B, G.C.M.G., D.S.O  
A.D C. (elected 1932).

DEANS OF FACULTIES. See under "General Information"—Faculties  
SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B, J.P  
Advocate.

## PROFESSORS, LECTURERS, ETC.

*Accounting and Business Method*  
Annan, W., M.A., C.A. Prof.  
Keddie, C., C.A. Asst.

*Actuarial Science*  
Aitken, A. C., D.Sc. Lectr.  
Reid, A. R., M.A., F.F.A., F.I.A. Lectr.  
Haynes, A. T., F.I.A. Lectr.

### *Agriculture, v. infra*

*Anatomy*  
Brash, J. C., M.C., M.D. Birm., M.A., M.B., Ch.B. Prof.  
Jamieson, E. B., M.D. Lectr.  
Wood, W. Q., M.D., Ch.M., F.R.C.S.E. Lectr.  
Jardine, F. E., Ch.B., F.R.C.S.E., M.B. (A. and Appld A.) Lectr.  
Walmsley, R., M.B., Ch.B. Asst.  
Borthwick, J. Tech. Asst.

*Anatomy, Comparative*  
Bradley, O. C., M.D., D.Sc. Lectr.  
Grahame, Tom, M.R.C.V.S. Asst.

*Anatomy, Morbid*  
Davidson, James, M.D., F.R.C.P. Lectr.

*Anthropology*  
Childe, Prof. V. G. Munro Lectr.

*Arabic*  
Bell, Richard, M.A., D.D. Lectr.

*Archæology, Classical*  
Wason, C R., B.A. Lect

*Archæology, Prehistoric*  
Childe, V. G., B.A. Syd., B.Lit Ox. Abercromby Pro

*Art (Fine Art)*  
Read, H., D.S.O., M.C, M.A. Watson Gordon Pro  
Ramsay, Mary, M A. Ass

*Astronomy*  
Sampson, R. A., M.A.Camb., D Sc LL.D., F.R.S. Reg. Pro

*Banking* [Bruce Lect  
M'Neil, A., M.A., S.S.C.

*Biology, v. Nat. Hist.*

*Botany, v. also Forestry*  
Smith, Sir Wm. Wright, M.A F.R.S. Reg. Pro

Wilson, M., D.Sc. (Mycol. an Bacteriol.) Reade

Smith, J. L. S., M.A., B.S. (Forest B.) Lect

Graham, R. J. D., D.Sc. (Botan) Lect

Nelson, A., B.Sc., Ph.D. (Plar Physiol.) Lect

Campbell, A. H., B.Sc. Ass

*Celtic Languages, etc.*  
Watson, W. J., M.A. Ox., D Litt LL.D. Pre



*Chemistry*

Kendall, James P., M.A., D.Sc., F.R.S.	Prof.
Mackenzie, J. E., D.Sc., Ph.D.	Reader.
Kay, S. A., D.Sc.	Lectr.
Rule, H. G., Ph.D., D.Sc.	Lectr.
Butler, J. A. V., D.Sc.	Lectr.
Bolam, T. R., D.Sc.	Lectr.
Ludlam, E. B., M.A., D.Sc.	Lectr.
.....	Lectr.
Miller, Miss C. C., B.Sc., Ph.D.	Lectr.
Campbell, N., B.Sc., Ph.D.	Lectr.
Bolam, Mary R. (Mrs.), B.Sc., Ph.D.	Asst.
14 other Assts.	

*Chemistry in relation to Medicine*

Barger, G., M.A. Camb., D.Sc., F.R.S.	Prof
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*Lecturers :*

Stewart, C. P., M.Sc. Durh., Ph.D.	
Stedman, E., B.Sc., Ph.D.	
Stedman, Ellen (Mrs.), M.Sc.	
Macartney, W. A., Ph.D.	Asst.
Gaddie, R., B.Sc.	Asst.

*Chemistry, Technical*

Bain, David, D.Sc.	Lectr.
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*Classics : Greek*

Calder, W. M., M.A. Ox., D.Litt.	[Prof.]
Forbes, P. B. R., M.A. Camb.	
Luckhurst, K. W., B.A.	Lectr.
White, K. D., B.A.	Asst.

*Classics : Latin*

Richmond, O. L., M.A. Camb.	Prof.
Campbell, D. J., M.A.	Lectr.
Potter, K. R., M.A.	Lectr.
Smith, W. K., B.A.	Lectr.
Nicolson, Miss C. A., M.A.	Asst.
Andrew, Eliz. C., M.A.	Asst.

*Commerce, and Organization of Industry, v. also Acc., Banking*

Oliver, W., B.Sc.	Prof.
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*Commercial and Polit. Econ. and Merc. Law, v. also Law*

Ogilvie, F. W., M.A. Ox.	Prof.
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*Lecturers :*

Birnie, A., M.A. (Econ. Hist.)	
Rankin, Mary T., M.A., D.Phil.	
Joynt, Thomas A., M.A.	
Isles, K. S., B.A., B.Com.	
Aitken, A. C., D.Sc. (Statistics and Math Econ)	
Bates, Stewart, M.A.	Asst.
<i>Cytology, v. Nat. Hist.</i>	
<i>Divinity</i>	
Paterson, Very Rev. W. P., LL.D. Penn, M.A., B.D., D.D.	Prof.

Robertson, Prof. Edward	
Gunning Lectr.	

Curtis, Rev. W. A., M.A., B.D., D.Litt., D.D.	
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Reg. Prof. of Biblical Criticism & Bib. Antiq.	
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Burleigh, J. H. S., M.A., B.Litt., B.D.	(Eccl. Hist.) Prof.
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Martin, Rev. Principal A., D.D., LL.D.	Lectr.
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Manson, Rev. Prof. W., B.D.	
Lectr.	

Simpson, Prof. J. Y., D.Sc.	Lectr.
Mackintosh, Rev. Prof. H. R., D.Phil., D.D.	Lectr.

Watt, Rev. Prof. H., B.D.	Lectr.
Welch, Rev. Prof. A. C., D.D., Th D.	Lectr.

Perry, Rev. Dean W., D.D.	Lectr.
Hughes, Rev. P'pal. G. H., D.D., D Litt.	Lectr.

Lamont, Rev. Prof. D., D.D.	
Lectr.	

Miller, Rev. J. H., C.B.E., D.D.	
Lectr.	

Thornton, C. T., M.A., B.D.	Lectr.
Morrison, Rev. J., D.D.	Asst.

Mathers, Rev. J., O.B.E., B.D.	Asst.
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<i>Economics, v. Comm.</i>	
<i>Economics, Social</i>	

Milnes, Nora, B.Sc.	Lectr.
<i>Education</i>	[Prof.]

Thomson, Godfrey H., D.Sc., Ph.D. (Dir. of Studies of the Provincial Training College)	
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Milne, A., D.Sc.	Lectr.	Linton, D. L., B.Sc.	Lectr.
Mowat, G., M.A., B.Ed.	Lectr.	Geddes, A., D. ès L.	Lectr.
Drummond, Margaret	Lectr.		

## Assistants :

Bickersteth, Marguerite E., Ph.D.	
Samuel, Eliz., M.A., B.Ed.	
Clark, Mary J., M.A.	
Borland, Miss J., M.A.	

*Engineering*

Beare, Sir Thos. Hudson, B.A., B.Sc. Adel.	Reg. Prof.
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## Lecturers

Todd, J. B., B.Sc., Ph.D., (Surv. & Hydraulics).	
Cowan, Lt.-Col. S. Hunter, D.S.O. (Forest Engin.)	
Stewart, David S., B.Sc., Ph.D.	
Patterson, C.	
Davidson, M. (Heat Engines).	
Carswell, J. I., B.Sc.	Lectr.
Stevenson, E., B.Sc.	Asst.
Ross, A. D., B.Sc.	Asst.
Thomson, R., B.Sc.	Asst.
Glover, T. S., B.Sc.	Demr.

*English Lit. and Rhetoric*

Grierson, H. J. C., M.A. Aberd., B.A. Ox., D.Litt., LL.D. St. And.	Reg. Prof.
Kitchin, G., M.A., D.Litt.	Lectr.
Macdonald, Angus, M.A. (E. Lang.)	Lectr.
Bullough, G., M.A.	Lectr.
Clark, A. M., M.A.	Lectr.
Wood, H., M.A.	Asst.
Cattanach, Rev. J. H.	Asst.
Smith, H. K.	Asst.

*Entomology, v. infra Agric.**Forestry, v. infra Agric.**French and Rom. Philol.*

.....	Prof.
Lafourcade, G.	Lectr.
Burns, Mary, M.A., D. de l'U. Paris	Lectr.
Poulet, G.	Lectr.
5 Assts.	

*Geography*

Ogilvie, Alan G., M.A., B.Sc. Ox.	[Prof.]
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*Geology*

Jehu, T. J., M.A., M.D. Reg. Prof.	
Campbell, R., M.A., D.Sc. (Petrology)	Reader.
Finlay, T. M., M.A., B.Sc. (Palæont.)	Lectr.
Craig, Robert, M.A., B.Sc. (Econ. Geol.)	Lectr.
Cockburn, A., Ph.D.	Asst.

*German and Teutonic Philol.*

Bruford, W. H., M.A. Camb. Prof.	
Eggehing, H. F., M.A.	Lectr.
Barker, Marie L., Ph.D.	
Research Fellow and Lectr.	
Wolcken, F., Ph.D. Heid	Asst.

*Hebrew and Semitic Langs.*

Kennedy, Rev. A. R. S., M.A., D.D. Glas. and St. And. Prof.	
Cameron, Rev. D., B.D.	Asst.

*Histology, v. Physiol.*

History, v. also Comm., Div.	
Williams, A. F. Basil, M.A.	Prof.
Heatley, D. P., M.A. (Political Science)	Reader.
Balfour-Melville, E. W. M., M.A.	Lectr.
Rothwell, H., Ph.D. Camb. (Medieval and Gen. European)	Lectr.
Horn, D. B., M.A., D.Litt.	Lectr.
Simpson, M., M.A.	Asst.

History, Ancient (Gk. & Roman)	
Giles, A. F., M.A. Edin. and Ox.	Reader.

History, Ancient, and Palæog	
Hannay, R. K., M.A. Glas., LL.D. St. And. and Ox.	Prof.
Lemon, Miss E., M.A.	Asst.

*History (Constitn. of the B. Emp., etc.)*

Keith, Prof. A. B.	Lectr.
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History, Const. and Const. Law	
Dykes, D. O., LL.B.	Prof.
Philip, J. R., M.A., LL.B.	Asst.

*Italian*

Purves, J., M.A. Lectr.

*Law, v. infra**Logic and Metaphysics, v. Philos.**Mathematics*

Whittaker, E. T., M.A. Camb.,

Sc D., LL D, F.R.S. Prof.

Horsburgh, E. M., M.A., D.Sc.

Reader.

Gibb, D., M.A., B.Sc. Lectr.

Aitken, A. C., D.Sc. Lectr.

Ruse, H. S., B.A. Lectr.

Edge, W. L., B.A. Lectr.

Rutherford, D. E., M.A., B.Sc.

Asst.

Campbell, J. T., M.A., Ph.D.

Asst.

*Mathematics, Applied*

Schlapp, R., Ph.D. Camb. Lectr.

*Medicine and Surgery, v. infra**Mining*

Briggs, H., Ph.D., D.Sc.

Hood Prof.

*Music*

Tovey, D. F., B.A., D.Mus. Ox.,

Mus.M. Reid Prof.

Shirlaw, M., Mus Doc. Lectr.

Grierson, Mary, Mus.Doc. Lectr.

Ludwig, Margt., Mus Bac. Lectr.

*Natural History and Zoology*

Ashworth, J. H., D.Sc., F.R.S.

Prof.

O'Donoghue, C. H., D.Sc. Reader.

*Lecturers :*

Nicoll, W., M.A., D.Sc., M.D.

(Helminthology).

Craig-Bennett, A. L., M.A., Ph.D.

Friend, G. F., B.Sc., B.A. (Cyto-

logy and Exp. Zool.).

Taylor, A. W., M.Sc. (Dip. in Trop.

Vet. Med. Course).

Gresson, R. A. R., B.Sc., Ph.D.

(Cytol.).

Gray, P., B.Sc., Ph.D. (Vert.

Embryol.).

Nicol, Edith A. T., Ph.D. Asst.

*Palaeontology, v. Geol.**Petrology, v. Geol.**Philology, v. French, Ger., Sansk.**Philosophy*

Smith, N. Kemp, M.A., D.Phil.

St. And., LL.D. Prof.

Porteous, A. J. D., M.A. (Ancient

P.) Lectr.

MacLennan, R. D., M.A. Lectr.

Sinclair, W. A., M.A. Asst.

Murray, A. R. M., M.A., Ph.D. „

*Philosophy, Moral, v. also Psych.*

Taylor, A. E., M.A., D.Litt., LL.D.

Prof.

Barker, H., M.A. Lectr.

Butterworth, E. A. S., B.A. Asst.

Carmichael, D. M. Asst.

*Philosophy, Natural*

Barkla, C. G., M.A. Camb., D.Sc.

Liv., F.R.S., Nobel Laureate.

Prof.

Darwin, C. G., M.A. Camb., F.R.S.

Tait Prof.

Carse, G. A., M.A., D.Sc. Reader.

Milne, J. R., D.Sc. Lectr.

Childs, C. B., Ph.D. Lectr.

Paton, J., M.A., B.Sc. Lectr.

Dymond, E. G., M.A. Camb.

Lectr. (Physics).

Kay, J. S., M.A. Asst.

Honeyman, A., M.A. Asst.

Ross, Marion A. S., M.A. Asst.

Carmichael, H., B.Sc. Asst.

*Physiology*

Schäfer, Sir E. A. Sharpey, LL.D.,

F.R.S. (till 30.9.33) Prof.

Cameron, May L., M.A., B.Sc.,

M.B. (Histol.) Lectr.

Bruce, A. N., M.D., D.Sc., F.R.C.P.

(P. of Nervous System) Lectr.

Eggleton, P., M.Sc., D.Sc. Lectr.

Bain, W. A., B.Sc. Lectr.

Kennedy, W. P., B.Sc., Ph.D.

L.R.C.P., L.R.C.S.E.

L.R.F.P.S., A.I.C. Asst.

Cameron, J. D. S., M.B., Ch.B.

F.R.C.P. Asst.

2 Technical Assts.

*Pol. Econ., v. Comm., Hist.*

*Psychology*

Drever, J., M.A., B.Sc. Lond.,  
D.Phil. Prof.

Collins, Mary, M.A., B.Ed., Ph.D.  
Lectr.

Fairbairn, W. R. D., M.A., M.D.  
Lectr.

Sutherland, J. D., B.Ed., B.Sc.  
Asst.

Seth, G., M.A., B.Ed. Asst.

*Rhetoric*, v. English

*Sanskrit and Comp Philol.*

Keith, A. Berriedale, M.A., D.Litt.,  
D.C.L. Reg. Prof.

*Semitic Langs.*, v. Hebrew

*Spanish*

Walton, L. B., M.A., B.Litt. Ox.  
Lectr.

Wilson, John, M.A. Asst.

Meek, J. M., M.A. Asst.

*Statistics*, v. Comm.

*Theology*, v. Divinity

*Theology, Natural*

Bevan, E. R., D.Litt., LL.D.  
Gifford Lectr.

*Zoology*, v. Nat. Hist.

**Agriculture and Forestry**

(v. also Bot., Engin., Law)

*Agriculture and Rural Economy*

Shearer, E., M.A., B.Sc. Prof.

More, J. A., B.Sc. Lectr.

Gordon, J. Evans, B.Sc. Lectr.

*Agric. and Forest Entomol.*

Cameron, A. B., M.A., D.Sc. Lectr.

McHardy, J. W., B.Sc. Lectr.

*Animal Genetics* [Prof.]

Crew, F. A. E., M.D., Ph.D., D.Sc.

Wiesner, B. P., Ph.D. Lectr.

Greenwood, A. W., Ph.D. Lectr.

Smith, A. D. B., M.A., B.Sc.

Lectr.

Miller, W. C., M.R.C.V.S. Lectr.

*Forestry*

Stebbing, E. P., M.A. Prof.

Pike, J. L., M.A., B.Sc. Lectr.

Fergusson, D. C., B.Sc. Lectr.

**Law**

*Administrative Law*

..... Reader.  
Fisher, M. G. Lectr.

*Agricultural Law*

Cowan, John, LL.B., K.C. Lectr.

*Civil Law*

Mackintosh, J., K.C., M.A. St.

And, B.A. Ox., LL.D. Prof.

Thomson, G. R., B.A., LL.B.

Asst.

*Constitutional Law*, v. Hist.

*Conveyancing*

Wedderburn, E. M., LL.B., D.Sc.,

W.S. Prof.

Young, A. W., LL.B., W.S. Asst.

*English Law*

Findlay, Sir C. S., M.A., LL.B.

Reader.

*Evidence and Procedure*

Eaton, H. W. Lectr.

*Industrial Law*

..... Lectr.

*International Private Law*

Garrett, Wm., M.A., LL.B.

Reader.

*Mercantile Law*, v. also Comm.

Lillie, J. A., LL.B. Lectr.

Taylor, T. M., LL.B. Asst.

*Public Law*

Wilson, Wm., M.A., LL.B.

Reg. Prof.

Kermack, S. G., M.A., LL.B.

Lectr. and Asst.

*Scots Law* [Prof.]

Henderson, R. C., K.C., LL.B.

Milne, C. B., M.A., LL.B.

Lectr. and Asst.

**Medicine**

(for subjects of the first 2 yrs.—

Anat., etc., v. *supra*)

*Bacteriology*

Mackie, T. J., M.D. Glas.,

M.R.C.P.E., D.P.H. Ox.

R. Irvine Prof.

## Lecturers :

Alston, J. M., M.B., Ch.B.,  
M.R.C.P.E.

Gibson, H. J., M.B., Ch.B.

Finkelstein, M. H., B.Sc., M.B.,  
Ch B

## Assts. :

MacGillivray, Isabel M., M.B.,  
Ch.B., M.R.C.P.E.

Haddow, A., M.B., Ch B.

Van Rooyen, C. E., M.D., Ch.B.

*Child Life and Health* [Prof.  
M'Neil, C., M.A., M.D., F.R.C.P.

*Children, Diseases of*

Carmichael, N. S., M.B., Ch.B.,  
F.R.C.P.E. Lectr.

Thatcher, L. H. F., M.D.,  
F.R.C.P.E. Lectr.

Hertzfeld, Gertrude, M.B., Ch.B.,  
F.R.C.S.E. Lectr.

Dott, N. McO., M.B., Ch.B.,  
F.R.C.S.E. Lectr.

Murray, J. M'N., M.B., Ch B.  
Asst.

Finlay, T. Y., M.D., F.R.C.P.E.  
Asst.

Craig, W. S., M.B., Ch B. Asst.

Wallace, H. L., M.B., Ch B.,  
F.R.C.P.E. Asst.

*Dental Diseases* [Lectr.

Jamieson, J. D. H., H.D.D., L.D.S.

*Dermatology, Clinical, v. infra*

Clin. Teaching Staff

*Eye, Diseases of the, v. infra*

Clin. Teaching Staff

*Forensic Med.*

Smith, S. A., M.D., D.P.H. Edin.  
and Glas. Reg. Prof.

Davidson, J., M.B., Ch.B.,  
M.R.C.P.E. Asst.

Mason, V. H., M.C., M.B., Ch.B.  
Asst.

Macfarlane, J., M.B., Ch.B. Asst.

*Gynaecology, Syst. and Clin., v. infra*

Clin. Teaching Staff

*History of Med.*

Comrie, J. D., M.A., B.Sc., M.D.,  
F.R.C.P.E. Lectr.

*Infective Fevers*

Benson, W. T., B.Sc., M.D.,  
F.R.C.P.E., D.P.H. Camb.  
Lectr.

*Laryng., Ot., and Rhinology, v. infra*

Clin. Teaching Staff

*Materia Medica*

Clark, A. J., B.A., M.C., B.A.  
Camb., M.D., F.R.C.P. Prof.

Scott, C. M., M.B., Ch B. Lectr.

Percival, G. H., M.B., Ch B.,  
Ph D., D.P.H. Ed and Glas,  
M.R.C.P.E. Asst.

Dick, I. A. G. L., M.B., Ch.B.  
Asst.

Bogue, J. Y., Ph.D., M.R.C.V.S.  
Asst.

Dikshit, B. B., M.B., B.S. Bomb.,  
D.P.H. Calc. Asst.

1 Tech. Asst.

*Medicine, v. also infra*

Clin. Teaching Staff

Ritchie, W. T., O.B.E., M.D.,  
C.M., F.R.C.P.E. Prof.

McCrie, J. G., M.B., Ch.B.,  
M.R.C.P.E. Lectr.

Thomson, W. A. R., M.B., Ch.B.  
Asst.

*Medicine, Clinical, v. also infra*

Clin. Teaching Staff

Bramwell, E., M.D., Ch.M.,  
F.R.C.P., F.R.C.P.E. Prof.

Russell, W. R., M.B., Ch.B.,  
M.R.C.P.E. Asst.

7 Clin. Tutors.

*Mental Diseases, v. Psychiat.**Midwifery and Diseases of Women, v. also infra*

Clin. Teaching Staff

Johnstone, R. W., C.B.E., M.A.,  
M.D., M.R.C.P.E., F.R.C.S.E.  
Prof.

3 Tutors, and 1 Tech. Asst.

*Neuro-Pathology*

..... Lectr.  
Carmichael, R., M.B., Ch.B.  
Supervisor.

*Orthopædics*

Cochrane, W. A., M.B., Ch.B.,  
F.R.C.S.E. Lectr.

*Pathology*, v. also Anat.—Morb.  
and Bacteriol.

Drennan, A. M., M.D., F.R.C.P.E.  
Prof.

Rettie, T., D.Sc. Lectr.

Millar, W. G., M.B., Ch.B. Lectr.

Macgregor, Agnes R., M.B., Ch.B.,  
F.R.C.P.E. Asst.

Monro, J. E., M.A., M.B., Ch.B.,  
F.R.C.S.E. Asst.

Ogilvie, R., M.B., Ch.B. Asst.

MacGillivray, Miss I. M., M.B.,  
Ch.B. Asst.

*Psychiatry*

Henderson, D. K., M.D.,  
F.R.F.P.S. Prof.

M'Alister, W. M., M.A., M.B.,  
Ch.B., F.R.C.P.E. Lectr.

Clarkson, R. D., B.Sc., M.D., C.M.,  
F.R.C.P.E. Lectr.

Fairbairn, W. R. D., M.A., M.D.  
Lectr.

Bruce, A. N., D.Sc., M.D.,  
F.R.C.P.E. Lectr.

Bailey, J. R., M.B., Ch.B.  
Clin. Tutor.

Spence, T. R. C., M.C., M.D. Asst.

M'Innes, R. G., M.B., Ch.B. Asst.

MacNiven, Angus, M.B., Ch.B.,  
D.P.M. Lond., M.R.C.P.E.

Clin. Tutor.

*Public Health*

Lelean, P. S., C.B., C.M.G.,  
F.R.C.S., D.P.H. Lond. Prof.

Langrishe, J. du P., D.S.O., M.B.,  
B.Ch. Dub., D.P.H. Lectr.

Guy, J., M.D., F.R.F.P.S.,  
F.R.C.P.E., D.P.H. Camb.  
(M.O.H. for the city) (San.  
Admin.) Lectr.

*Radiology and Electrical Thera-  
peutics*

White, J. D., M.B., Ch.B. Lectr.

*Sanitary Administration*, v.  
Public Health

*Surgery*, v. also *infra* Clin.  
Teaching Staff

Wilkie, D. P. D., O.B.E., M.D.,  
Ch.M., F.R.C.S., F.R.C.S.E.

Prof.

Fraser, John, M.D., Ch.M.,  
F.R.C.S.E. (Chn S) Prof.

7 Clin. Tutors.

1 Tech. Asst.

1 Teacher of Anaesthetics.

*Therapeutics*, v. also *infra* Clin.  
Teaching Staff

Lyon, D. Murray, M.D., D.Sc.,  
F.R.C.P.E., D.P.H. Ed. and  
Glas. Prof.

Gilchrist, A. R., M.B., Ch.B.,  
F.R.C.P.E. Lectr.

Dunlop, D. Melville, B.A. Ox.,  
M.D., M.R.C.P.E. Lectr.

Murray-Lyon, R. M., M.D.,  
M.R.C.P.E. Asst.

Hendry, E. B., B.Sc. Chemist.

*Tropical Climates Diseases*

Greig, Lt.-Col. E. D. W., C.I.E.,  
I.M.S., D.Sc., M.D., C.M.,  
F.R.C.P.E. Lectr.

*Tuberculosis*

Philip, Sir Robert W., M.A., M.D.,  
LL.D., F.R.C.P.E. Prof.

Dunlop, D. Melville (v Therap.)

Asst.

Simpson, J. C., M.B., Ch.B. Asst.

*Venereal Diseases*

Lees, David, D.S.O., M.A., M.D.,  
F.R.C.S.E. Lectr.

## Tutors:

Liston, Mary F., O.B.E., M.B.,  
Ch.B. Glas.

Lees, R., M.B., Ch.B.

Batchelor, R. C. L., M.A., M.B.,  
Ch.B., F.R.C.S.E., D.P.H.

Ed. and Glas.

## Clinical Teaching Staff

*Clinical Surgery*

## Surgeons-in-Ordinary

Chiene, G. L., M.B., Ch.M.,  
F.R.C.S.E.

Stuart, W. J., M.A., M.B., Ch B,  
F.R.C.S.E.

Struthers, J. W. M.B. Ch.B.,  
F.R.C.S.E.

Wilkie, Prof. D. P. D., v. Surg

Wade, Henry, C.M.G., D.S.O.,  
M.D., F.R.C.S.E.

Fraser, Prof. John, v. Surg.

Graham, J. M., M.B., Ch.M.,  
F.R.C.S.E.

#### Asst. Surgeons :

Watson, A. Pirie, O.B.E., M.A.,  
M.B., Ch M., F.R.C.S.E.

Jardine, F. E., M.B., Ch.B.,  
F.R.C.S.E.

Wood, W. Q., M.D., Ch M.,  
F.R.C.S.E.

Shaw, J. J. M., M.C., M.A., M.D.,  
F.R.C.S.E.

Mercer, W., M.B., Ch B.,  
F.R.C.S.E.

Cochrane, W. A., M.B., Ch B.,  
F.R.C.S.E.

Brown, K. Paterson, M.B., Ch.B.,  
F.R.C.S.E.

Stewart, R. L., M.B., Ch.B.,  
F.R.C.S.E.

Miller, T. M'W., M.B., Ch.B.

#### *Clinical Medicine*

##### Physicians-in-Ordinary :

Watson, D. Chalmers, M.D.,  
F.R.C.P.E.

Bramwell, Prof., v. Med., Clin.

Matthew, Edwin, M.A. Aberd.,  
M.D., Ch.M., F.R.C.P.E.

Eason, John, M.D., Ch.M.,  
F.R.C.P.E.

Ritchie, W. T., O.B.E., M.D.,  
Ch.M., F.R.C.P.E.

Lyon, Prof. D. Murray, v. Therap.

Comrie, Dr. J. D., v. Hist. of M.  
Goodall, Alex., M.D., F.R.C.P.E.

##### Asst. Physicians :

Mathewson, G. D., B.Sc., M.B.,  
Ch.B., F.R.C.P.E.

Hewat, A. Fergus, M.D.,  
F.R.C.P.E.

Watson-Wemyss, H. L., M.D.,  
F.R.C.P.E.

Small, W D D., M.D., F.R.C.P.E.

Alexander, W. A., M.B., Ch B.,  
F.R.C.P.E.

#### *Clinical Gynaecology*

##### Gynaecologists :

Johnstone, Prof. R. W., v. Mid-  
wif.

Young, James, D.S.O., M.D.,  
F.R.C.S.E.

Haultain, W. F. T., O.B.E., M.C.,  
B.A., M.B., B.Ch. Camb.,  
M.R.C.P.E., F.R.C.S.E.

##### Asst. Gynaecologists :

Miller, D. A., M.D., F.R.C.S.E.

Fahmy, E. C., M.B., Ch.B.,  
M.R.C.P.E., F.R.C.S.E.

Sturrock, J., M.B., F.R.C.S.E.

#### *Ophthalmology*

##### Surgeons :

Traquair, H. M., M.D., Ch.M.,  
F.R.C.S.E., D.P.H.

Cameron, E. H., M.B., Ch.B.,  
F.R.C.S.E.

##### Asst. Surgeons :

Chalmers, E. H., M.B., Ch.B.

Graham, C. W., M.B., Ch.B.,  
F.R.C.S.E.

Paterson, J. R., M.B., Ch.B.,  
F.R.C.S.E.

#### *Ear, Nose, Throat*

##### Surgeons :

Fraser, John S., M.B., Ch.B.,  
F.R.C.S.E.

Lithgow, J. D., M.B., Ch.M.,  
F.R.C.S.E.

##### Asst. Surgeons :

Gardiner, W. T., M.C., M.B., Ch.B.,  
F.R.C.S.E.

Martin, G. F., M.A., M.B., Ch.B.,  
F.R.C.S.E.

#### *Diseases of the Skin*

##### Physicians :

Gardiner, Frederick, B.Sc., M.D.,  
Ch.M., F.R.C.S.E.

Low, R. Cranston, M.D.,  
F.R.C.P.E.

## Asst. Physicians :

Aitken, Robert, M.D., F.R.C.P.E.

## University Extension

Percival, G. H., Ph.D., M.B.,

19 Tutors, including 6 Univ. Profs.  
and 11 Univ. Lectrs.

Ch B., M.R.C.P.E., D.P.H.

Romanes Lecturer, 1933—Prof. Dr H. Wieland (Munich).

## ASSOCIATED COLLEGES, in which Univ. courses are provided.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. XXIV. p. 814. Principal and Prof. of Agric. and Rural Econ., Prof. E. Shearer, M.A., B.Sc. The Univ. staff and the following : Lectrs. : *Agr. Engin. and Surveying*, L. M. Walker, B.Sc. ; *Bacteriol.*, T. Gibson, B.Sc. ; *Chem. and Agr. and Forest Chem.*, A. Lauder, D.Sc., F.I.C., A. M. Smith, Ph.D., *Econ.*, D. Witney, B.Com. 7 other teachers, 7 Advisory and 23 Extension staff.

HERIOT-WATT COLLEGE. The College provides instruction in Day and Evening Classes for those following or proposing to follow technical careers in Mech. Eng., Electr. Eng., Mining and Oil Eng., Applied Chem., Brewing, Pharmacy, Building, and Printing. Principal, J. C. Smail, O.B.E., F.R.S.E. Staff : *Chem.*, Prof. T. Slater Price, O.B.E., D.Sc., Ph.D., F.I.C., F.R.S. ; Sr. Lectr., J. Sandilands, F.I.C. ; 8 other Lectrs. *Eng., Electr.*, Prof. F. G. Bailey, M.A., M.I.M.E., F.R.S.E. ; Asst. Prof., E. N. Pink, B.Sc. ; 2 Lectrs. *Eng., Mech.*, Prof. A. R. Horne, O.B.E., B.Sc., M.I.M.E., F.R.S.E. ; Asst. Profs., H. H. Vaughan, B.Sc., M.I.M.E., R. S. Smillie, B.Sc. ; 7 Lectrs. *Eng. Mining*, Prof. H. Briggs, O.B.E., D.Sc., Ph.D., A.R.S.M., M.I.M.E., F.R.S.E. ; 4 Lectrs. *Maths.*, 2 Lectrs. *Physics*, 3 Lectrs. *Printing*, 3 Lectrs.

NEW COLLEGE. Principal, Rev. Alex. Martin, D.D. The Univ. Profs. and the following Profs. and Lectrs. : *Apologetic Theol.*, *Christian Ethics*, and *Pract. Training*, Rev. D. Lamont, D.D. ; *Church Hist.*, Rev. H. Watt, D.D. ; *Dogmatics*, Rev. H. R. Mackintosh, D.Phil., D.D. ; *Elocution*, G. Goring ; *Nat. Sci.*, J. Y. Simpson, D.Sc. ; *New Test. Lang.*, *Lit. and Theol.*, Rev. W. Manson, D.D. ; *Old Test. Lang.*, *Lit. and Theol.*, Rev. A. C. Welch, D.D., Th.D. ; *Pract. Training and Sociol.*, Rev. J. H. Miller, C.B.E., D.D. ; *Relig. Instrn.*, W. Boyd, M.A., B.Sc., D.Phil.

ROYAL (DICK) VETERINARY COLLEGE. Principal and Prof. of Anat. and Histol., O. Charnock Bradley, M.D., D.Sc., M.R.C.V.S. Other Profs. : *Animal Pathol.*, J. R. Greig, Ph.D., M.R.C.V.S. ; *Chem. and Physics*, R. G. Thin, B.Sc., F.I.C. ; *Hyg. and Dietetics*, R. G. Linton, Ph.D., M.R.C.V.S. ; *Med. and Materia Medica*, G. F. Boddie, B.Sc., M.R.C.V.S. ; *Pathol., Bacteriol., and Meat Inspection*, D. C. Matheson, F.R.C.V.S., D.V.S.M. ; *Physiol.*, H. Drysdale, Ph.D. Edin., M.R.C.V.S. Eng., L.R.C.P. Lond., F.R.S.E. ; *Surgery and Obstet.*, W. M. Mitchell, M.C., T.D., M.B., Ch.B., B.Sc., M.R.C.V.S. 7 Lectrs., 4 Assts., 2 Demrs., 1 Hon. Radiologist, 3 Clin. Assts.

## GENERAL INFORMATION, v. also pp. 288 ff.

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the Medical Buildings and the McEwan Hall (1888-97), which holds 2600 and has a great electric organ ; and "The King's Buildings" (commenced in 1920) for Chemistry and other Science Depts. The Medical School of this Univ. has been famous for many generations ; specially ample provision exists also



for instruction and research in Theology (post-grad. school instituted 1919), Agric., For., Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

**LIBRARY**, founded in 1580, 350,000 vols., 8000 MSS., includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America, the Laing Charters (A.D. 854–1837), the Laing manuscripts, the Abercromby collection of 2500 vols. on archæology, ethnology, etc.; the Blackie collection of modern Greek books, the Bruce collection of books on oceanographical subjects, the Cameron collection of Celtic literature. **MUSEUMS**: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden*; the Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The **LABORATORIES** are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the Labs. at King's Buildings, completed 1924, have accommodation for about 400 students), Zool., Mining, Engin. (notably Hydrs., Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health. The Univ. has a table at the Millport Marine Station. **HOSPITALS**: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., the Royal Mental Hospl., and the Royal Victoria Hospl. for Tuberculosis. Over 50 resident posts in these are given annually to Med. graduates.

**FACULTIES.** (1) Arts, (2) Science (including Engineering, Mining and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. N. K. Smith (Philos.), (2) Prof. Sir T. Hudson Beare (Engin.), (3) Prof. Curtis (Biblical Criticism), (4) Prof. Mackintosh (Roman Law), (5) Prof. Sydney Smith (Forensic Med.), (6) Prof. Tovey (Music).

**ADMISSION AND RECOGNITION OF INSTITUTIONS AND TEACHERS** outside the U.K. See Appendix XXII.

**DEGREES AND DIPLOMAS** (v. also pp. 289 ff.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and must have completed a graduation course in Arts or Science. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), *Engl. Language, French, German, and Spanish*, and a Diploma and a Certif. in *Social Study*.

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (6 mos.), in *Psychiatry* (1 yr.), in *Radiology* (1 yr.), and in *Tropical Vet. Med.* (6 mos.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus.Bac.* must have passed the Prelim. Examn. or its equivalent, and attended a course in this Univ. during 3 winter sessions. A *Mus.Bac.* of 3 yrs.' standing may offer himself for the *Mus.Doc.* (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology issues a detailed list of courses. Graduates contemplating research should apply to the Deans.

SCHOLARSHIPS (v. also pp. 291-2). Total annual value over £25,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1200 p.a. for *research*.

*Travelling* for study or research is encouraged by Dickson Fund (£90 p.a.), Dundas Latin Studies Fund (£45 p.a.), Drummond Mathematical Scholarship (£140 p.a. for 3 yrs.), Maclaren Mathematical Scholarship (£206 for 3 yrs.), Scott Scholarship for Graduates in Arts (£73), M'Cosh Bursaries for Graduates in Medicine (£300).

FEES (v. Carnegie Trust, p. 292). Inclusive tuition fees for LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 33 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sc., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Graduation exams.: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.B., 15 gs.; Mus.D., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: Cowan House, George Square; accommodation for about 100 students. Terms, £17:10s. to £23 per term; University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street), Board and lodging about £2:12:6 a week. For women: East Suffolk Rd., Craigmillar Park (Warden), £50 for the three terms; Masson Hall, 31 and 32 George Square (Warden); and Murr Hall, 12 George Square (Warden), £60 to £72 p.a. Six months' notice generally necessary.

APPOINTMENTS COMMITTEE. Secretary: T. A. Joynt, M.A.

GENERAL ADVISER OF WOMEN STUDENTS: Miss M. Rackstraw, B.A., Old Quadrangle.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

Indian Students' Adviser: J. E. Mackenzie, D.Sc.

UNIV. EXTENSION, ETC. The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Edinburgh W.E.A. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

OFFICIAL PUBLICATIONS. The *Calendar* (Aug.), 5s.; the *Prelim. and*

*Degree Examn. Pprs.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). *The Students' Handbook* issued by the Students' Representative Council. *Facilities for advanced Study and Research* free on application.

**HISTORIES OF THE UNIV.:** Bower, Alexr., chiefly compiled from original papers and records, never before published, 3 vols., Edin., 1817-30; Dalzel, Andrew (ed. by D. Laing), with a Memoir of the Author (by C. Innes), 2 vols., Edin., 1862; Grant, Sir Alexr., *The Story of the Univ. during its first 300 years*, 2 vols., London, 1884.

## THE YEAR 1931-32

**BENEFACTIONS.** Grant from the Colonial Development Fund towards the cost of teaching for the Diploma in Tropical Vet. Med. From the Trustees of the late Mr. Edward Clark, £300 p.a. for at least the next 3 yrs. towards the salaries in the Dept. of Child Life and Health, and a further £100 towards endowment. Bequest by Dr. Alfred Hay of (1) £1000 for the purchase of special apparatus or instruments in connexion with research work in the Physical Lab.; (2) Books and periodicals relating to the various branches of pure science (maths., physics, chem., bot., zool., etc.). Anonymous donations of £150 and £120 to meet cost of renovating the University portraits, and for redecoration of public rooms. From the Executors of the late Mr. Richard Muir, for 54 years a member of the Staff of the Dept. of Pathol., the large collection of negatives and microscopic preparations of pathological specimens made by him, together with the apparatus used for this work. A collection of papers handed over to the Library by Mr. George A. Mitchell, Glasgow, which had formed part of the David Laing Collection, but which had accidentally become separated from the rest of the Collection. From the late Mr. A. W. Blackie, a portrait of Prof. Blackie painted by the late Mr. J. H. Lorrimer. From Prof. Emer. Schlapp, two medallions designed by himself, representing Scott as a student, and Carlyle as a student, to be placed on the pilasters on each side of the platform of the McEwan Hall.

**RECENT DEVELOPMENTS.** A scheme of affiliation between the Univ. and the Heriot-Watt Coll. approved by the Privy Council, and an Ordinance formulating the procedure is now before Parliament. An Act was passed in June 1932, to transfer to the University Courts the right of presentation or appointment to certain chairs or professorships in the faculties of Divinity or Theology in the Universities of Scotland, to remove restrictions as regards appointment to chairs or professorships in the said Universities; to extend the powers of the University Courts of the said Universities with regard to the making of ordinances, and for purposes connected therewith. A scheme for the administration of certain Fellowships, Scholarships, and Bursaries of the Univ. prepared by the Educational Endowments (Scotland) Commission at the request of the University Court approved by the Privy Council. Post-graduate Diplomas in French and in Agricultural Science instituted. Additional accommodation for the University Library and Reading-rooms provided in the rooms vacated by the Dept. of Zoology. The Grant Institute of Geol. and the Sanderson Engin. Labs. formally opened by the Prime Minister, Mr. J. Ramsay MacDonald. The University Court resolved to adapt certain accommodation in Minto House as a Gymnasium, at a cost, including equipment, not exceeding £2000. A party of Argentine Students visited Edinburgh in July and were entertained to lunch at the University. The University Court approved an amended Constitution, Laws and Byelaws for the Students' Representative Council in terms of Ordinance No. 60, General No. 22, Section (2).

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. T. H. Bissonnette of Trin. Coll., Harvard, Connecticut, visited the Univ. and delivered a lecture in the Zool. Dept.

EXTRA-MURAL WORK. Classes conducted by the Edinburgh Workers' Educational Association, which meet in the University Buildings, had an enrolment of 474 men and 808 women—total, 1282. A University Extra-mural Committee has been formed for the purpose of organizing Courses of Lectures in the south-east area of Scotland. Classes were held in ten centres attended by 267 students.

DEATHS. Dr. J. B. Shoesmith (Chem.), Dr. S. J. Crawford (English Lang.), Dr. Wm. Gordon (Engin.), J. Robertson Christie, K.C. (Univ. Court), Prof. J. M. Moore (French), J. O. Taylor (Industrial Law), Prof. G. M. Robertson (Psychiatry), Prof. Emer. Pringle-Pattison (Logic and Metaphysics), Prof. Emer. G. Baldwin Brown (Fine Art).

HONORARY DEGREES. D.D.—Rev. James Richmond Aitken; Rev. Prof. Cecil John Cadoux; Rev. Prof. Albert Fekhof, Leyden, Rev. James William Jack; Rev. Thomas Majorbanks. LL.D.—Hon. Lord Blackburn; Charles Vernon Boys, F.R.S.; Henry Moulbray Cadell; David Middleton Greg; Robert Stewart MacDougall, II E. Andrew Mellon, United States Ambassador; Sir John Prosser, C.V.O.; Prof. Emer. Arthur Robinson (*in absentia*); Rt. Hon. Sir Archibald Sinclair, C.M.G., M.P., Secretary of State for Scotland; Sir Josiah Stamp, G.B.E.; John Warrack; Sir William Younger, Bart.

STUDENTS. Full-time: total, 3675, including 150 graduates. Part-time: total, 575, including 66 graduates.

DEGREES. D.Litt. 1 (m.); M.D. 29 (m.); D.Sc. (Pure), 8 (m.), 1 (w.); Mus. Doc. 1 (m.); Ph.D. Divinity, 8 (m.), 1 (w.); Ph.D. Law, 1 (m.); Ph.D. Arts, 11 (m.), 1 (w.); Ph.D. Science, 30 (m.), 6 (w.); Ph.D. Medicine, 2 (m.), 1 (w.); B.D. 8 (m.); LL.B. 18 (m.), 2 (w.); B.L. 19 (m.), 6 (w.); B.Ed. 2 (m.), 1 (w.); M.A. (Hons.), 69 (m.), 42 (w.); M.A. (Ord.), 113 (m.), 154 (w.); B.Com. 26 (m.), 12 (w.); B.Sc. Pure (Hons.), 25 (m.), 4 (w.), (Ord.), 5 (m.), 3 (w.); B.Sc. Engineering (Hons.), 13 (m.), (Ord.), 17 (m.); B.Sc. Agriculture (Hons.), 5 (m.) (Ord.), 9 (m.); B.Sc. Forestry (Ord.), 18 (m.); B.Sc. Veterinary, 1 (m.); B.Sc. Technical Chemistry (Hons.), 3 (m.), (Ord.), 1 (m.); Mus. Bac. (Hons.), 2 (m.), 2 (w.); Mus. Bac. 5 (m.), 8 (w.); M.B., Ch.B. 138 (m.), 21 (w.).

DIPLOMAS. D.T.M. & H. 5 (m.); D.P.H. 9 (m.), 6 (w.); Dipl. Psychiatry, 3 (m.), 1 (w.); Dipl. Radiology, 3 (m.), 1 (w.); D.T.V.M. 5 (m.); Dipl. Education, 10 (m.), 12 (w.); Dipl. Actuarial Mathematics, 1 (m.); German 1 (m.) Dipl. Social Study, 5 (w.); Certif. Social Study, 5 (w.).

## UNIVERSITY OF GLASGOW

CHANCELLOR—Sir DONALD MACALISTER, Bt., K.C.B., D.L., M.A.,  
D.C.L., LL.D., D.Sc., M.D., F.R.C.P.

VICE-CHANCELLOR AND PRINCIPAL—Sir ROBERT S. RAIT, C.B.E., D.L.,  
LL.D.

RECTOR—COMPTON MACKENZIE, O.B.E., LL.D. (elected 1931).

DEAN OF FACULTIES—Emeritus Prof. F. O. BOWER, Sc.D., D.Sc., LL.D.,  
F.R.S. For Dean of each Faculty, see "General Information."

SECRETARY TO THE UNIV. COURT—J. S. MUIRHEAD, LL.B.

CLERK OF SENATE—Prof. J. R. CURRIE, M.A., M.D., D.P.H.

REGISTRAR—ROBT. BROUGH.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R.  
CUNNINGHAM, M.A.

CLERK OF THE GENERAL COUNCIL—D. M. HUTCHISON, LL.B.

## QUEEN MARGARET COLLEGE

Mistress—Miss F. H. MELVILLE, M.A., B.D., LL.D.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>Arabic</i>	
Loudon, J., M.A., C.A.	Prof.	Robson, J., M.A.	Lectr.
Davidson, W. L., C.A.	Asst.	<i>Astronomy</i>	
<i>Agriculture, v. infra</i> West of Scotland Coll of Agr.		Becker, L., Ph.D Bonn. Reg.	Prof.
<i>Anatomy</i>		Ross, John J., M.A.	Demr.
Bryce, T. H., M.A., M.D., C.M. Edin., F.R.H.	Reg. Prof.	<i>Bio-Chemistry, v. Medl.—Pathol.</i> <i>Chem.</i>	
Maclaren, Norman, Ph.D. (Em- bryology)	Lectr.	<i>Botany</i>	
Nicol, T., M.B., Ch.B., F.R.C.S.E. (Regional A.)	Lectr.	Walton, J., M.A. Camb., D.Sc. Manc.	Reg Prof.
Henderson, E. E., M.B., Ch.B.	Lectr.	Lecturers :	
Hamilton, W. J., B.Sc., M.B., Ch.B.	Lectr.	Williams, S., M.Sc. Manc., Ph.D.	
Wyburn, G. M., M.B., Ch.B.	Demr.	Thomson, J., M.A., B.Sc., Ph.D.	
Robertson, A. S., M.B., Ch.B.	Demr.	Jones, S. G., D.Sc.	
Harvey, Robt, M.B., Ch.B.	Demr.	Bond, G., B.Sc., Ph.D.	
		Carnegie Teaching Fellow.	
		Assts. :	
		Case, Isabella M., B.Sc., Ph.D.	
		Asprey, G. F., B.Sc. Lond.	
		Tervet, I. W., B.Sc., Temp.	

*Celtic* [Lectr.  
Calder, G. B.D., D.Litt. Edin.

*Chemistry*, v. also Physiol. Chem.  
Henderson, G. G., D.Sc., LL.D.  
St. And., F.R.S. Reg. Prof.

Lecturers:  
\*Bolam, H. W., B.Sc. Edin., Ph.D.  
Knox, J., D.Sc. Aberd.  
(Med. Studs.)

Roberts, J., M.A.  
Henderson, A., M.A., B.Sc.  
Mair, J. A., B.Sc., Ph.D.  
(Anal. Chem.)

Chisholm, D., B.Sc., Ph.D.  
M'Culloch, W. P., B.Sc.  
Gibson, D. T., M.Sc., Ph.D. Belf.  
D.Sc.

Carnegie Teaching Fellows:  
Russell, A., D.Sc. Belf.  
Blair, R. D., B.Sc., Ph.D.

Assistants:  
\*Morrison, Jane, M.A.  
Lewin, Christina T., B.Sc.  
\*Stewart, Eliz. C., M.A., B.Sc.  
Bell, J., B.Sc., Ph.D.

*Chemistry, Organic*  
Patterson, T. S., D.Sc. Lond. &  
Glas., Ph.D. Heid.

Gardiner Prof.  
Tucker, S. H., M.A. Ox., M.Sc.,  
Ph.D. Lond. Lectr.  
Buchanan, C., B.Sc., Ph.D. Lectr.  
Stevens, T. S., B.Sc., D.Phil. Ox.

Carnegie Teaching Fellow.  
Kent, Andrew, M.A., B.Sc., Ph.D.

Asst.  
Storrie, F. R., B.Sc., Ph.D. Asst.  
Robertson, J., B.Sc. Asst.  
M'Alpine, Irene M., B.Sc., Ph.D.

Asst.  
Loudon, J. D., B.Sc. Asst.

*Chemistry, Physical*  
Wright, Robert, D.Sc. Belf. Lectr.  
Mitchell, Stothard T. R. S., D.Sc.,  
Ph.D.

Carnegie Teaching Fellow.

Thomson, George, B.Sc., Ph.D.  
Asst.

*Classics*, v. also Philol. [Prof.  
Davies, G. A., M.A. Camb. (Greek)

Lecturers:  
Gomme, A. W., B.A. Camb. (Gk.  
and Gk. Hist.).  
Kitto, H. D. F., B.A. Ox. (Greek).  
Muir, W. E., M.A. (Greek).  
Rennie, W., M.A. Ed. and Camb.,  
Litt.D. Liv. (Humanity) Prof.

Lecturers:  
Nisbet, R. G., M.A. (Latin).  
Pirie, J. W., M.A. Aberd. (Latin).  
M'Glynn, P., M.A., D.Litt. (Latin).  
Austin, R. G., M.A. Ox. (Latin).  
Kelly, A. S., M.A. (Latin).

*Divinity*, v. also Hebrew  
Fulton, W., B.Sc., D.D.

Primar. Prof.  
Macgregor, Rev. G. H. C., M.A.  
St. And., B.D. Camb., D.Litt.  
(from Oct. 1933) Prof.  
Main, A., M.A. Glas., B.A. Ox.,  
D.Litt., D.D. (Church Hist.).

Reg. Prof.  
Temple, The Most Rev. Wm.,  
D.D., D.Litt., Archbp. of  
York

Gifford Lectr. in Nat. Theol.

*Economics*, v. Pol. & Social Econ.  
*Education* [Lectr.

Boyd, W., M.A., B.Sc., D.Phil.  
Inglis, W. B., M.A., Ed.B., Ph.D.  
Lectr.

*Embryology*, v. Anat.

*Engineering*, v. also Naval  
Archit.

Goudie, W. J., D.Sc.  
J. Watt Prof. of Theory  
and Practice of Heat  
Engines.

Small, J., B.Sc., Ph.D. Lectr.  
Geyer, E. W., B.Sc. Lectr.

*Engin., Civil and Mech.*  
Cormack, J. D., C.M.G., C.B.E.,  
D.Sc. Reg. Prof.

Brown, R. M., D.Sc., Ph.D. Lectr.  
 Keown, J. E., B.Sc. (Drawing and Design) Lectr.  
 Morrison, J. C., B.Sc., Ph.D. Lectr.  
 Wilson, J., B.Sc., B.Com. Lectr.  
 M'Gregor, W., B.Sc. Lectr.  
 Thom, A., D.Sc., Ph.D. Lectr.  
 Orr, J., B.Sc., Ph.D.

Carnegie Teaching Fellow.  
 M'Donald, G. G., B.Sc. Asst.  
 Ballantyne, A. M., B.Sc. Temp Asst

*Engineering, Electrical*  
 Howe, G. W. O., D.Sc. Durh and Adel. J. Watt Prof.  
 Hague, B., D.Sc. Lond., Ph.D. Lectr.

Scobie, J., B.Sc. Lectr.  
 Small, A. J., B.Sc. Lectr.

*Engineering Production*  
 Sloan, K. M. Lectr.

*English Language and Literature*  
 Dixon, W. M., Litt.D. Dub., LL.D. Aberd. and Dub. Reg. Prof.

Lecturers.  
 Bickersteth, G. L., M.A. Ox.  
 Girvan, R., M.A. (Eng. Lang.)  
 \*Alexander, P., M.A.  
 Gray, Margaret M., M.A.  
 Wright, B. A., B.A. Ox.  
 Purser, J. W. R., B.A., T.C.D.  
 May, Maude G., M.A.

*French*  
 Martin, C. A., M.A. Chev. d. l.  
 Leg d'H., C.G., O.I.P. Prof.

Lecturers:  
 Pitoy, L. M., B.Sc., L. ès L. Phil  
 Pitoy, Mary C., M.A.  
 Ferguson, Marjorie M., M.A.  
 Silver, R. C., M.A., L. ès L.  
 Perroy, E., L. ès L.  
 Anderson, N. C., M.A.  
 Gardner, W. N., M.A. Asst.  
 Classe, André, L. ès L. Paris Asst.

*Geography*  
 Stevens, A., M.A., B.Sc. Lectr.  
 Crowe, P. R., B.Sc. Lond. Lectr.

#### Assistants:

Grieve, Eliz. M., B.Sc.  
 Lebon, J. H. G., B.Sc. Lond.  
 Fairhurst, H., B.A. Liv.  
 Huggins, K. H., B.Sc. Lond.  
 Snodgrass, Catherine, Ph.D. Ed.

#### Geology

Bailey, E. B., M.A. Camb., F.R.S. Prof.  
 Tyrell, G. W., Ph.D., D.Sc., A.R.C.S. Lectr.  
 Neilson, Agnes T., M.A. Lectr.  
 Weir, J., M.A., Ph.D. Lectr.  
 Barrett, B. H., M.A., B.Sc. Lectr.  
 M'Callhen, Wm. J., D.Sc. Lectr.  
 Currie, Ethel D., B.Sc., Ph.D. Lectr.

Latham, Mary H., M.A. Carnegie Teaching Fellow.  
 Flett, W. R., B.Sc. Asst.  
 Leitch, D., B.Sc. Asst.

#### German

Smith, H., M.A. St. And., Ph.D. Marb. William Jacks Prof.  
 Clark, James M., M.A., Ph.D. Lectr.  
 Flint, Mary C., M.A. Asst.  
 Hoops, R., Ph.D. Asst.

#### Hebrew and Semitic Langs.

Stevenson, W. B., D.Litt., D.D. Edin. Prof.  
 Atlas, D., M.A. Asst.

#### History, v. also Div., Law, Pol. Econ.

Browning, A., M.A., D.Litt. Prof.  
 Sayles, G. O., M.A., D.Litt. Lectr.  
 Tweeddale, Greta C., M.A. Lectr.  
 Hislop, Ian G., M.A. Lectr.  
 Miller, S. N., M.A. (H. and Antiq., Roman) Lectr.  
 Mackie, J. D., M.A. Ox. (Scottish H.) Prof.

#### Lecturers:

Pryde, G. S., M.A., Ph.D. St. And. (Scottish H.)  
 Douglas, D. C., B.A. Ox. (Med. H.)  
 Lees, R. M., M.A. (British H.)

- Humanity*, v. Classics  
*Italian* [Stevenson Prof.  
 Grillo, Cav. E., K.C.O.I., M.A.,  
 Litt.D. Flor, LL.D. Perugia  
 MacKinnon, A. D., M.A. Lectr.  
 Guercio, F. M., B.A. Liv. Asst.
- Law*, v. *infra*  
*Logic and Rhetoric*  
 Paton, H. J., M.A. Glas. and Ox.  
 Prof.  
 Brown, George, M.A. Edin. Lectr.  
 Levett, Margaret J., M.A. Lectr.  
 Haydock, G. H., M.A., B.Litt. „  
 Dickie, J. S., M.A., B.Sc. „  
 Cousin, D. R., B.A. Ox. „
- Mathematics* [Prof.  
 MacRobert, T. M., M.A., D.Sc.  
 Lecturers  
 M'Arthur, N., M.A., B.Sc.  
 M'Whan, J., M.A., Ph.D.  
 Arthur, W., M.A.  
 Hyslop, J., M.A. Glas., Ph.D.  
 Camb.  
 Rankine, Jean C., M.A., B.Sc.  
 Robb, R. A., M.A., B.Sc.  
 Gillespie, R. P., Ph.D. Camb.,  
 M.A., B.Sc.  
 Brown, George, M.A. Asst.  
 Anderson, A., M.A., B.Sc. Asst.  
 Smith, J. H., M.A. Asst.  
 r Temp. Asst.
- Medicine and Surgery*, v. *infra*  
*Metallurgy*, etc., v. Royal Tech.  
 Coll.
- Mining*  
 Bryan, A. M., B.Sc. Dixon Prof.  
 Adam, D., B.Sc. Lectr.
- Music*  
 Whittaker, W. G., M.A., D.Mus.  
 Durh., F.R.C.O.  
 Gardiner Prof.  
 Wintersgill, H. H., M.A., B.Mus.  
 Ox. Asst.
- Naval Archit., including Marine  
 Engin.*  
 Hillhouse, P. A., D.Sc.  
 John Elder Prof.
- Evans, D. L., B.Sc. Lectr.  
*Philology, Comp (Classical)*  
 Pirie, J. W., M.A. Aberd. Lectr.  
*Philosophy, Moral*, v. also Logic  
 and Psychol. [Prof.  
 Bowman, A. A., M.A., Litt. D.  
 Phillips, I. W., M.A. Lectr.  
 Lamont, W. D., D.Phil. Ox., M.A.  
 Lectr.  
 Kerr, Sheila A., M.A., B.Litt. Ox.  
 Asst.
- Philosophy, Natural*  
 Jones, E. Taylor, D.Sc. Lond. Prof.  
 Houston, R. A., D.Sc., Ph.D.  
 (Physical Optics) Lectr.  
 Cochrane, Charles, M.A., B.Sc.  
 Lectr.  
 Thomson, J., M.A., B.Sc., Ph.D.  
 Lectr.  
 M'Farlane, W., M.A., B.Sc. Lectr.
- Physics, Applied*  
 Gray, J. G., D.Sc. Cargill Prof.  
 Allan, G. E., D.Sc. Burm.  
 Arnott and Thomson  
 Demr. in Expl. Physics  
 and Lectr. in Elec.  
 Green, G., M.A., D.Sc. Lectr.  
 Gray, R. C., M.A., D.Sc. Lectr.  
 Younger, A. J., M.A., B.Sc. Lectr.
- Physiology*  
 Cathcart, E. P., C.B.E., M.D.,  
 D.Sc., LL.D., F.R.S.  
 Reg. Prof.  
 Watson, A. M., M.A., Ph.D. (His-  
 tology) Lectr.  
 Wishart, G. M., B.Sc., M.D.  
 Grieve Lectr.  
 Garry, R. C., M.B., Ch.B.  
 Lectr. & Demr.  
 Bell, G. H., B.Sc., M.B., Ch.B.  
 Asst.
- Physiological Chem.*  
 Hunter, A., M.A., B.Sc., M.B.,  
 Ch.B. Edin., F.R.S.C.  
 Gardiner Prof.  
 Wilson, H. E. C., M.B., Ch.B.,  
 D.Sc.  
 Carnegie Teaching Fellow.



*Political Economy*

Scott, W. R., Litt.D. Dub., D.Phil.  
St. And. Prof.

Buyers, J. A., M.A.  
(Econ. Hist.) Lectr.

Nisbet, J. W., LL.B. Lectr.

Macfie, A. L., LL.B. Lectr.

*Political Philosophy*

White, Alex. K., M.A. Lectr.

*Psychology*

Thouless, R. H., Ph.D., M.A.  
Camb. Lectr.

Pickford, R. W., M.A., Ph.D.  
Camb. Asst.

*Psychology, Industrial*

Oakley, C. A., B.Sc., Ed.B. Lectr.

*Russian* [Sir William Weir Lectr.  
Brennan, H. G., M.A. Lond.

*Social Economics*

Cunnison, James, M.A. Lectr.

*Spanish*

Atkinson, W., M.A. Belf.  
Stevenson Prof.

Anderson, J. A., M.A. Lectr.

McClelland, Ivy L., B.A. Asst.

*Theology, v. Divinity**Zoology*

Kerr, J. Graham, M.A. Camb.,  
F.R.S. Reg Prof.

Jepps, Margaret W., M.A. Camb.  
Lectr.

Staig, R. A., M.A. Lectr.

Chumley, James, M.A., Ph.D.  
Lectr.

Parsons, C. W., B.A. Camb. Lectr.

*Assts. :*

Miller, Agnes E., M.A.  
Brown, H. H., B.A. Camb.  
Foxon, G. E. H., B.A. Camb.  
Douglas, Marjorie I., B.Sc.  
Cott, Hugh B., M.A. Camb.

*Law*

Gloag, W. M., K.C., B.A. Ox.,  
LL.D. Edin. Reg. Prof.

*Civil Law* [Lectr.  
Muirhead, J. S., B.A. Ox., LL.B.

*Const. Law and Hist.*

Mungo, D. B., LL.B. Lectr.

Kelly, F. N. D., LL.B. Asst.

*Conveyancing*

Girvan, J., LL.B. Prof.

Kay, A., LL.B. Asst.

*Evidence and Procedure*

M'Leish, D. A. S., LL.B. Lectr.

*Internat. Law, Public, and Internat. Private Law*

Nicol, R. M., LL.B. Lectr.

*Jurisprudence, Genl.*

M'Intosh, H., LL.B. Lectr.

*Mercantile Law*

Henderson, J. J. C., B.L. Prof.

Boyd, J., LL.B. Asst.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Bacteriology*

Browning, C. H., M.D., D.P.H.,  
F.R.S. Gardiner Prof.

Kyles, W. B., M.B., Ch.B. Lectr.

*Dermatology*

Tomkinson, J. G., M.D.

M'Call Anderson Mem. Lectr.

Smith, J. Ferguson, M.A., M.B.,  
Ch.B. Lectr.

*Ear and Throat and Nose,**Diseases of*

Young, G., M.C., M.B., Ch.B.,  
F.R.F.P.S. Lectr.

Harper, J., M.A., M.B., Ch.B.,  
F.R.F.P.S. Lectr.

Syme, W. S., M.C., M.B., Ch.B.,  
F.R.F.P.S. Asst.

*Electrical Diagnosis and Therapeutics* [Lectr.

Park, S. D. S., M.B., Ch.B. Glas.,  
D.M.R.E. Camb. Asst.

MacLean, A. B., M.D. Lectr.

Crawford, R. M. C., M.D. St. And.  
Private Asst.

*Eye, Diseases of the* [Lectr.  
Ballantyne, A. J., M.D., F.R.F.P.S.

*Forensic Medicine*  
Glaister, J., D.Sc., M.D. Reg Prof.  
Martin, F. W., M.B., Ch.B. Asst.

*Infancy and Childhood, Dis. of*  
Fleming, G. B., M.B.E., B.A., M.D.  
Camb., F.R.F.P.S. (Med.  
Pediatrics)

Samson Gemmell Prof.  
Ford, F. J., M.D., Ch.B.

Private Asst.  
Graham, S. G., M.D. Tor.,  
F.R.F.P.S. Lectr.

MacLennan, A., M.B., C.M. (Surg.  
and Orthop.) Lectr.

Macfarlane, W. D., M.B., Ch.B.,  
F.R.F.P.S. Private Asst.

*Materna Medica*, v. also Med.  
Clin.

Stockman, R., M.D. Edin.,  
F.R.C.P.E., F.R.F.P.S.

Reg. Prof.  
Alstead, S., M.D. Liv.

Pollok Lectr.  
Snedden, W. W., B.Sc. Weir Asst.  
Scott, W. H., M.B., Ch.B. Asst.

*Medicine* [Muirhead Prof.  
Hunter, W. K., M.D., D.Sc.

Cruikshank, J. N., M.C., M.D.,  
D.Sc. Asst.

Imrie, A. H., M.B., Ch.B. Asst.

*Medicine, Clinical*  
Middleton, J. C., M.A., B.Sc., M.B.,  
Ch.B., F.R.F.P.S.

Waltonian Lectr. (also  
Lectr. in *Mat. Med.*).

Lecturers :  
Henderson, J., M.D., F.R.F.P.S.  
Russell, D. W., M.B., C.M., D.P.H.  
Harrington, A. W., M.D.,  
F.R.F.P.S.

Crawford, A. Muir, M.D.,  
F.R.F.P.S.

Carlsaw, J., M.A., M.B., C.M.  
Gracie, John, M.B., Ch.B.,  
F.R.F.P.S.

Allan, G. A., M.D., M.R.C.P.,  
F.R.F.P.S.

McKenzie, Ivy, B.Sc., M.A., M.D.,  
F.R.F.P.S.

*Medicine, Practice of*  
Monro, T. K., M.A., M.D., C.M.,  
F.R.F.P.S. Reg Prof.

Assistants :  
Adams, D. K., M.A., B.Sc., M.D.,  
M.R.C.P., F.R.F.P.S.

M'Cluskie, J. A. W., M.B., Ch.B.  
Lendrum, R. G., M.A., M.B., Ch.B.

*Midwifery*  
Kerr, J. M. Munro, M.D., C.M.,  
F.R.F.P.S. Reg Prof.

M'Intyre, D., M.B.E., M.D.,  
F.R.C.S.E., F.R.F.P.S. Asst.

Anderson, D. F., M.B., Ch.B. Asst.

*Obstetrics and Gynaecology*  
Hendry, J., M.B.E., M.A., B.Sc.,  
M.B., Ch.B., F.R.F.P.S.

Muirhead Prof.  
Cameron, S. J., M.B., Ch.B.,  
F.R.F.P.S. (Clin) Lectr.

Shannon, David, M.B., Ch.B.

"Samaritan" Lectr.  
Baird, D., B.Sc., M.B., Ch.B.,  
D.P.H. Asst.

Hunter, Alison M., M.B., Ch.B.  
Asst.

*Pathology*  
Muir, R., M.A., M.D., C.M. Edin.,  
Sc.D., F.R.S. Prof.

Heggie, J. F., M.B., Ch.B., B.Sc.  
Lectr.

Kerr, A. B., M.B., Ch.B., B.Sc.  
Asst.

Niven, Janet S. F., M.D. Asst.  
Dunn, J. Shaw, M.A., M.D.

St. Mungo-Notman Prof.  
Marshall, Alice J., M.B., Ch.B.

Lectr.  
Jarvie, J., B.Sc., M.B., Ch.B. Asst.

*Pathology of Diseases of Infancy  
and Childhood*

Blacklock, J. W. S., M.B., Ch.B.  
Lectr.

*Pathological Bio-Chemistry*  
Lecturers :  
Telfer, S. V., B.Sc., M.B., Ch.B.

Cuthbertson, D. P., M.B., Ch B.,  
D Sc  
Morris, N, B Sc, M.D., F R.F.P.S.  
D.P.H. Liv

*Pædiatrics, v. Infancy*

*Psychiatry (Mental Diseases)*

MacNiven, Angus, M.B., Ch B,  
D.P.M., M.R.C.P.E. Lectr.  
MacDonald, J. H, M B, Ch B,  
F.R.F.P.S (Psych Med.)  
Mackintosh Lectr.

*Psychological M., v. Psychiatry*

*Public Health*

Currie, J. R., M A Edin. and Ox.,  
M.D. Glas, D P.H. Birm.

Prof.

Macgregor, A. S. M., O B.E, M.D.,  
F.R.F.P.S, D.P.H. Camb  
(Hyg.) Hon. Lectr

Mearns, A. G., B Sc., M D,  
D.P.H. Lectr.

Mitchell, Mabel E, B.Sc., M B.,  
B.L. Asst.

*Surgery*

Young, Archibald, B Sc., M.B.,  
C.M., F R.F.P.S. Reg. Prof.

Hutton, A. J., M.B, Ch.B. Asst.

Robertson, J. G. M'G., M B.,  
Ch B. Asst.

Mackey, W. A., M B., Ch.B. Asst.

Paterson, Peter, M B, C M.,  
M.R.C.S., L.R.C.P.,  
F.R.F.P.S. St. Mungo Prof.

Burton, J. A. G, M.C., M.B., Ch B.,  
F.R.C.S.E, D P.H. Camb.

St. Mungo Asst.

Montgomery, J. W., M B., Ch.B.  
Asst.

*Surgery, Clinical*

Lecturers:

Edington, G H., D.Sc, M.D,  
C M, M.R.C.S., L.R.C.P.,  
F.R.F.P.S.

Patrick, J., M.A, M.B, C M,  
F R.C.S.E, F R.F.P.S

Macewen, J A. C, B.Sc, M B,  
C.M, F R.F.P.S.

Young, Roy F, M C, B.A., M B,  
B Ch Camb, F.R.F.P.S.

McIntyre, Milne, M B., Ch B.,  
F R.F.P.S.

Renton, J. M., M.B, Ch B,  
F R.C.S.E

Duff, D, F.R.C.S.E., F.R.F.P.S

Taylor, J., O B.E, F.R.C.S.E,  
F.R.F.P.S.

Tennent, R, M B, Ch.B,  
F.R.C.S.E

Taylor, M. L, M.B., Ch B

Campbell, W. A., M.B, Ch B,  
F.R.C.S.

White, M., M.A, M.B, Ch.B.,  
F.R.C.S.E, F.R.F.P.S.

*Tuberculosis, Clinical*

Crockett, J., M.D., Edin.,  
F.R.C.P.E., D.P.H. Lectr.

Wilson, J. A., M B, Ch.B. Lectr.

*Veneral Diseases*

Watson, D., M.B., C.M. Lectr.

*University Extension*

Stevenson Lectr. in Citizenship:  
Burns, C. Delisle, M.A., D.Lit.  
Lond.

Joint Secy. for the Univ. to the  
Glasgow Univ. Extra-mural  
Education Committee:  
Stewart, D. M., C.I.E., M.A.

ASSOCIATED COLLEGES, in which University courses are  
provided at Glasgow.

THE ROYAL TECHNICAL COLLEGE, v. *infra*.

THE WEST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. XXIV. p.814.  
Principal, W. G. R. Paterson, B.Sc., N.D.A. Profs. and Lectrs.: *Agric.*, The  
Principal, Prof.; J. Kirkwood, B.Sc., N.D.A., N.D.D., C.D.A.; A. F. R. Nisbet,  
M.A., B.Sc., N.D.A., N.D.D., 1 Asst.; *Agr. Book-keeping*, J. Kirkwood; *Agr.*  
*Econ.*, J. W. Nisbet, LL.B.; *Agr. Engin. and Surveying*, J. Malcolm, B.Sc.,

A.R.T.C., N.D.A.; *Agr. Zool.*, Prof. L. A. L. King, M.A. Camb., 1 Asst.; *Bacteriol.*, J. F. Malcolm, M.Sc. Lond., F.A.C. Glas., N.D.A., N.D.D., 4 Assts. (3 Clean Milk); *Bees and Bee-keeping*, J. Tinsley, F.E.S., 2 Asst. Lectrs.; *Bot.*, Prof. K. W. Braud, M.A. Camb., B.Sc. Aberd., W. F. Burnett, M.A., B.Sc., 1 Asst.; *Chem.*, Prof. D. N. M'Arthur, D.Sc., Ph.D., F.I.C., E. M. Melville, M.A., B.Sc., B.Sc. (Agr.), N.D.A., 2 Asst. Lectrs., 2 Assts.; *Dairying*, Prof. R. H. Leitch, M.A., B.Sc., B.Sc. (Agr.), N.D.A., N.D.D., D. M. Smullic, B.Sc., N.D.A., N.D.D.; *Geol.*, M. M. Monie, M.A., B.Sc.; *Hortic.*, D. V. Howells, Agr. Dip. (U.C.W.), F.R.H.S. (Supt.), W. Good, F.R.H.S., B. P. Perry, N.D.H., F.R.H.S., A. E. Livingston, F.R.H.S., 2 Assts.; *Plant Husbandry*, D. G. O'Brien, M.A., B.Sc., B.Sc. (Agr.), N.D.A., N.D.D.; *Vet. Sci.*, Prof. J. R. M'Call, M.R.C.V.S. (Lectr.). 9 Advisory and 21 Extension staff.

## GENERAL INFORMATION, v. also pp. 288 ff.

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. For early history, see *Yearbook*, 1929.

The LIBRARY, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles; the Hamilton, rich in philosophical works; and the Ferguson, containing rare books on the history of chemistry. The HUNTERIAN MUSEUM, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPITALS are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit., Chem.), Applied Chem., Agric., Architecture, Public Health, Pharmacy. Deans: (1) Profs. W. Rennie (Humanity), (2) E. Taylor Jones (Nat. Phil.), (3) A. Hunter (Physiol. Chem.), (4) J. Gurvan (Convey.), (5) W. Fulton (Divinity), (6) J. D. Cormack (Civ. Eng. and Mech.).

### ADMISSION, v. Appendix XXII.

DEGREES, v. also pp. 289 ff. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course); D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident outside the United Kingdom, namely, in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in

any Faculty application should be made to the Dean. A Post-graduate *Medical Assocn.* organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 9 Woodside Terrace, Glasgow, C.3.

CLASS FEES (v. Carnegie Trust, p. 292). M.A. (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs.

SCHOLARSHIPS FOR GRADUATES (v. also pp. 293-4): about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) There are also 5 Foundations for res. scholarships and studentships.

*Travelling* for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada, U.S.A., or France.*

RESIDENCE. Two Halls of Residence for men—the MacLay Hall and the MacBrayne Hall; and two for women—Queen Margaret Hall and the Robertson Hall. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

THE APPOINTMENTS COMMITTEE (for men and women). Secretary, Adviser of Studies Office, The Univ. The Mistress of Queen Margaret Coll. also receives notices of vacancies for women.

SOCIETIES. Glasgow Univ. Club, London. Hon. Secs.—A. Macphail, M.D., F.R.F.P.S., Pennagowan, Northwood, Middlesex; J. M'Clure, M.D., F.R.C.S., 62 Harley House, London, N.W.1. Glasgow Univ. Women Graduates' London Assn. Hon. Sec.—Miss L. Buist, M.A., 31 Bitchington Road, Crouch End, London, N.8.

UNIVERSITY EXTENSION. An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit; a compendium of classes and lectures for the session is obtainable from the Organizing Secy., W.E.A., 177 Hill Street, Garnethill, Glasgow, C.3. Fortnightly and occasional free public lectures by profs. and others during the winter session.

PUBLICATIONS. *Calendar*; *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates; *History of the University of Glasgow* (Coutts); *Roll of Graduates* (1726-1896) (Addison); *Matriculation Albums* (Addison).

## THE YEAR 1931-32

BENEFACTIONS. Bequest by the late Mr. Robert Lamond, LL.B., Writer, Glasgow, and Lectr. in Evidence and Procedure, of £1000, as the nucleus of an Endowment Fund for a Chair of Evidence and Procedure, or to supplement funds for such an endowment if already provided, and for the payment until such Chair be founded of the income of the above sum to the incumbent of the

Lectureship in these subjects. Bequest by the late Emer. Prof. Archibald Barr, D.Sc., LL.D., of the house "Royston," Dowanhill, for use as a Professor's residence. Gift by Lady Mechan of £2000—£1300 for a light in the west window of the Chapel and £700 as the nucleus of a Special Purposes Fund. Bequest by the late Dr. Robert Gordon Macdonald, Dunedin, N.Z., of two sums of £2500, to be known as "The Macdonald Halladale Fund" and "The Macdonald Reay Halkirk-Latheron Fund," the income to be used for providing bursaries. Gift by Emer. Prof. Medley of an annual prize of £5 during his lifetime, to be awarded under such conditions as the Principal and the Prof. of History may determine. By the University Engineering Society, an annual prize of £5, to be awarded to the most distinguished graduate of the year in the Faculty of Engineering.

HONORARY DEGREES *D.D.*—J. H. Baxter, J. R. Darbyshire, M. S. Dickson, J. H. Maclean, W. Macmillan, J. Murphy. *LL.D.*—Prof. R. Alessandri, Prof. R. J. T. Bell, Sir J. Alfred Ewing, W. K. Gillies, Prof. J. Glaister, Sir J. B. Henderson, Helen A. Keller, A. B. Kelly, Sir T. Kelly (Lord Provost of Glasgow), W. H. Laing, Compton Mackenzie, Prof. D. J. Medley, C. Petit-Dutailis, D. J. Smith.

DEATHS. Em. Prof. Barr, Prof. R. A. Dron, Em. Prof. J. W. Gregory, Em. Prof. Latta, Mr. A. A. Mitchell

RESIGNATIONS. Prof. W. J. Entwistle (Spanish), Prof. G. Milligan (Divinity) Mr. C. A. Campbell (Philos.), Dr. D. K. Henderson (Psychiatry), Dr. J. M. Johnston (Mat. Med.).

STUDENTS. Full-time: total, 4995 (men, 3425; women, 1570). Part-time: total, 498 (men, 470; women, 28).

DEGREES. M.A., 744; B.Sc., 171; M.B., Ch.B., 104; B.L., 21; LL.B. 21; Ed.B., 6; B.D., 7; Ph.D., 16; D.Litt., 4; M.D., 19 D.Sc., 10.

# THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated to the University of Glasgow.]

*Chairman of the Board of Governors*—ROBERT ROBERTSON, B.Sc.,  
M.Inst.C.E.

*Director*—H. F. STOCKDALE, LL D., F.R.S.E.

*Tutor and Librarian*—W. G. BURRELL, M.A.

*Treasurer*—J. S. CROFT.

*Secretary*—A. MACKAY, F.C.I.S.

## PROFESSORS, LECTURERS, ETC.

### *Architecture and Building*

Hughes, T. H., F.R.I.B.A., F.S.I.,  
A.R.C.A.

Prof. and Dir. of Arch.  
Studies.

Brown, T., A.R.I.B.A. Lectr.

Smith, Wm J., F.R.I.B.A. „

### *Bacteriology and Botany*

Ellis, D., D.Sc. Lond., Ph.D. Marb.

Prof. (Bact.) & Lectr.  
(Bot.).

Lloyd, Blodwen, M.Sc. Wales,  
Ph.D.

Lectr. (Bact.) and Asst.  
Lectr. (Bot.).

Leitch, J. M., B.Sc.

Asst. Lectr. (Bact.).

### *Chem., Inorg., Metall., and Analyt.*

Caven, R. M., D.Sc. Lond. Prof.

Lecturers:

Hay, Prof. R. (Metall. C.).

Sutherland, Maggie M. J., D.Sc.

Cranston, J. A., D.Sc., A.I.C.  
(Physical Chem.).

Duncan, J. G., F.I.C., A.R.T.C.

Gordon, P. F., Ph.D., F.I.C.

Crawford, A. B., B.Sc., Ph.D.,  
A.R.T.C., A.I.C.

Demrs:

Anderson, H. G. A., B.Sc., A.R.T.C.

Love, T., B.Sc.

M'Lean, J., B.Sc.

Benson, C., B.Sc., A.R.T.C.

Bryce, G., B.Sc., A.R.T.C.

Thomson, J. K., A.R.T.C.

### *Chemistry, Organic*

Wilson, F. J., D.Sc. Edin., Ph.D.  
Leip. Prof.

Cumming, W. M., D.Sc. Lectr.

Hopper, I. V., B.Sc. Lond., Ph.D.,  
A.R.C.S.I. Lectr.

### *Chemistry, Technical*

..... Young Prof.  
Cruikshanks, G. S., Ph.D. Leip.

Lectr.

Loveless, A. H., M.Sc. Lond. Lectr.  
Buchanan, Walter J., A.R.T.C.

Lectr.

Lever, D., B.Sc., A.R.T.C. (Sugar  
Manuf.) Lectr.

### *Dyeing, Bleaching, etc.*

Steven, A. B., B.Sc. Lond. Lectr.

### *Engineering, Civil*

Moncur, G., B.Sc. Edin. Prof.

Hunter, W., B.Sc. Lond.,  
A.R.T.C. Lectr.

Thomson, G., M.A. Edin. (San.  
Eng.) Lectr.

*Engineering, Electrical*

Smith, S. Parker, D.Sc. Durh.  
 Meade, F. E., M.I.E.E. Prof.  
 Lectr.

Asst. Lectrs. and Demrs. :

Farrell, J. F. E., B.Sc.  
 Shearer, G., B.Sc.  
 Say, M. G., Ph D., M Sc. Lond.  
 Cowan, J. A., A.R.T.C.  
 McWhirter, H. R. S., B.Sc. Lond.  
 Fairley, E. S., B.Sc., A.R.T.C.  
 Bradshaw, E., M Sc. Tech. Manc.

*Engineering, Mechanical*

Mellanby, A. L., D Sc Durh.,  
 M.Sc. McG. Prof.  
 Kerr, Wm., Ph.D., A.R.T.C.

Assoc. Prof.

Sinclair, J. H., M.Sc. Vict, B Eng.  
 Liv. Lectr.

Smith, J., B.Sc. Lectr.  
 Caldwell, P. S., A.R.T.C. Lectr.  
 Ramsay, J., B.Sc. Lond. Lectr.  
 Sneed, O., B.Sc., Ph.D. Lectr.

Asst. Lectrs. and Demrs. :

Garrick, J. A., B.Sc.  
 Russell, R., B.Sc.  
 Scott, A. W., B.Sc., Ph.D.,  
 A.R.T.C.

M'Broom, H L., B.Sc., A R T C.  
 Russell, R.

Shannon, J. F., A.R.T.C.  
 Moir, C. M., B.Sc. Lond.  
 Laird, A. M., B.Sc., A.R.T.C.  
 Caldwell, J., B.Sc., A.R.T.C.,  
 Wh. Sch.

Henry, H. N., B.Sc., A.R.T.C.

*Engineering, Mining* [Prof.

Bryan, A. M., B.Sc., M.I.M.E.  
 Stevenson, J., B.Sc. Lectr.  
 Miller, Wm., B.Sc. Asst. Lectr.  
 Hibberd, G., Ph.D., A.R.T.C.  
 Demr.

*Geology, Economic*

Edwards, E. J., M.Sc. Manc. and  
 Leeds Lectr.

*Mathematics*

Miller, J., M.A., D.Sc. Prof.  
 Paul, J. I., M.A., B.Sc. Lectr.  
 Geddes, S., M.A., B.Sc. Lectr.

*Metallurgy*

Hay, R., B.Sc., Ph.D., F.I.C. Prof.  
 Lecturers and Demrs. :  
 Maddocks, W R, B.Sc. Wales  
 Macdougall, A. J.  
 Howat, D. D., B.Sc.

*Natural Philosophy*

Muir, J., D.Sc., M.A. Camb.  
 Freeland Prof.  
 M'Quistan, D. B, M A., B Sc.

Assoc. Prof.

Rankin, J. S., B.Sc., Ph.D.,  
 A.R.T.C. Lectr.

Asst. Lectrs. and Demrs. :

Symon, F. J., B.Sc.  
 Macaulay, J. M., B.Sc., Ph.D.,  
 A.R.T.C.  
 Strachan, J. G., M.A.  
 Stratton, Jean M., B.Sc., Ph D.,  
 A.R.T.C.

*Naval Architecture*

Gray, W. M., B.Sc. Lectr.

*Pharmacy and Pharmacog.*

Todd, J. P., Ph.D., Ph.C. Lectr.  
 Schorn, E. J., A.I.C., Ph.C.  
 Asst. Lectr.

Rattray, G., Ph.C. Demr.  
 Milne, G. R., Ph.C. Demr.

*Sugar Manufacture, v. Chem-  
istry, Tech.**Textile Manufacture*

Watson, W., F.T.I. Lectr.  
 2 Asst. Lectrs.

## GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.



The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only: Building, Naval Architecture, Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4) yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £80,000 has been raised, is carried on at the College. The library includes the Euing musical collection and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs.' course) are issued.

The College has an athletic ground, and within the College buildings a well-equipped gymnasium.

FEES for tuition: diploma, 25 gs. p.a.; degree, 90 gs. for course.

PUBLICATIONS. *Calendar*; *Annual Report*; *Research Journal*; *Metallurgical Club Journal*.

## THE YEAR 1931-32

NEW BUILDINGS. A 5 ft. diameter open-jet type wind tunnel, for investigation of problems in general engineering as well as in aerodynamics, in course of construction.

OTHER DEVELOPMENTS. The two depts. of Mining in the Univ. and Coll. amalgamated under one Head, who will be "Dixon" Prof. of Mining in the Univ., and Prof. of Mining in the College. The classes attached to the Chairs will be held, for the most part, within the College.

CHANGES IN REGULATIONS. A new Ordinance, governing the award of the degree of B.Sc. in Pharmacy, will come into operation at the commencement of session 1932-33. The new course, which is for an hon. degree in Appld. Sci., will extend over 4 yrs. The technical part of the course will be given in the College.

RETIREMENTS. Prof. J. H. Andrew (Metall.), on appointment to the Chair of Metallurgy in the Univ. of Sheffield. Prof. Daniel Burns (Mining), under Superannuation Rules.

DEATH. Prof. Thomas Gray (Tech. Chem.).

RESEARCH JOURNAL. The eighth number was issued, containing 15 papers in Natural Philos., Chemistry, Metallurgy, Mech. Engin., Elect. Engin., and Bacteriol.

UNIVERSITY EXTENSION. 1857 part-time students of 21 years of age or over were in organized classes. 386 tickets were issued for the courses in Astronomy.

STUDENTS. Full-time: preparing for a first Degree or Diploma (excluding 19 attending major portion of time at Glasgow Univ.), 353; undertaking advanced work, 22. Part-time: preparing for a first Degree or Diploma, 342; undertaking advanced work, 25; occasional students, 1812; taking courses not of a Univ. standard, 1052.

DEGREES OBTAINED. Ph.D., 4; B.Sc. in Applied Science, 33; B.Sc. Lond., 4.

# UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Rt. Hon.  
STANLEY BALDWIN, LL.D., M.P.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE  
UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., D.C.L.  
Durh., LL.D. Glas., D.Sc. St. And., Liv. and Princet., Sc.D Camb.,  
Yale and Penn., Ph.D. Leip., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Gen. The Rt. Hon.  
JAN CHRISTIAAN SMUTS, C.H., LL.D., K.C., F.R.S.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY AND REGISTRAR—ANDREW BENNETT.

LIBRARIAN—GEORGE H. BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—.....

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—.....

ADVISERS OF STUDENTS. See under "General Information."

## PROFESSORS, LECTURERS, ETC.

### *Anatomy*

Waterston, D., M.A., M.D., C.M.  
Edin. Bute Prof.

Kirkpatrick, H. J. R., M.B., Ch.B.,  
D.P.H. (Regional A.)  
(on leave) Lectr.

Waterston, R. E., B.Sc., M.B.,  
Ch.B. (Regional A.)  
Interim Lectr.

Dow, D. R., M.B., Ch.B., M.D.,  
D.P.H., F.R.C.P.E. Prof.\*

Harper, W. F., B.Sc., Ph.D., M.B.,  
Ch.B. Lectr.\*

Skæe, F. M. T., M.B., C.M. Asst.\*

### *Biology, v. Nat. Hist.*

### *Botany*

Robertson, R. A., M.A., B.Sc.  
Prof.†

Smith, Edith P., B.A., Ph.D.  
Edin., F.L.S. Lectr.\*

Kean, Chrissy I., B.Sc., Ph.D.  
Asst.

### *Chemistry*

Read, J., M.A. Camb., B.Sc. Lond.,  
Ph.D. Zür. (Dir. of Chem.

Res. Lab) Prof  
Steele, Ettie S., M.A., B.Sc., Ph.D.  
Lectr. & Asst.

Robertson, G. J., M.A., B.Sc.,  
Ph.D. Lectr.

Macdonald, J. Y., M.A., Ph.D.

Lectr.  
Dewar, J., B.Sc. Asst.

M'Kenzie, Alex., M.A., D.Sc.,  
Ph.D. Berl., F.R.S. Prof.\*

Ross, J. D. M.B., M.B.E., M.A.,  
D.Sc. Edin. (Phys. C)  
James White Lectr. & Asst.\*

Roger, R., B.Sc., Ph.D. Lectr.\*

Smith, Isobel A., M.A., B.Sc.,  
Ph.D.

Carnegie Teaching Fellow  
& Asst.\*

Pirie, D. J. C., B.Sc. Asst.\*

\* At Dundee.

† At St. Andrews and Dundee.

*Classics*

- Rose, H. J., M A Ox. (Gk.) Prof.  
 Tate, J., M A (Gk.) Lectr.  
 Lindsay, W. M., M.A. Ox, LL D.,  
 Litt.D., Ph D., F.B.A. (Hu-  
 manity) Prof.  
 Laidlaw, W. A., M A (Latin)  
 Lectr.  
 Mitford, T B, M A (Latin) Lectr.  
 Dall, Mrs A, M A, Ph D.  
 Jr Asst  
 Lorimer, W L., M.A. (Latin)  
 Reader \*

*Dentistry, v. infra**Divinity*

- .....  
 Primarius and Reg Prof.  
 Duncan, G S, O.B.E., M.A., D.D.  
 (and Bibl. Crit) Reg. Prof.  
 Baxter, J. H, M A, B D., D Litt.,  
 D.D. Glas. (Eccles. Hist.)  
 Reg. Prof  
 Marett, R R, M A, D.Sc., LL D.  
 (1932-33) Gifford Lectr.

*Economics*

- Jack, D T., M A. Lectr.

*Education*

- M'Clelland, W. W., M A, B Sc.,  
 B Ed Bell Prof  
 Snodgrass, N S., M A (Admin of  
 Schs., etc.) Lectr.†

*Engineering, Civil and Mechan-  
cal\**

- Fulton, A R, D.Sc Prof \*  
 Hay, J M, B Sc (Mech E and  
 Machine Design) Lectr.\*  
 Steel, G S., B Sc Lond., Ph D.  
 (Civ. E. and Struct. Design)  
 Lectr.\*  
 Dempster, D, B Sc Asst.\*

*Engineering, Electrical\**

- Mackay, W. M., M C., B.Sc.  
 Lectr.\*

*English Lang and Lit.*

- Webster, A Blyth, M A., LL.D.  
 (E. Lit.) Berry Prof.

- Clyde, W. M'C, M.A., Ph D Lectr.  
 Oakden, J. P, M A, Ph D Lectr.  
 Soutar, G, M A, D Litt.

Reader.\*

- Walker, W. A, M A. Asst \*

*French Lang and Lit †*

- Lewis, C B., M A Camb., L ès L.  
 Paris, Ph D Breslau Lectr †  
 Stewart, W M'C, M A. Lectr †  
 Dickinson, Gladys, B.A. Lond.,  
 L ès L Lyon Asst †

*Geology†*

- Innes, D E, M C., M A.

Reader.†

- Walker, F., M A. Camb, D.Sc.,  
 Ph D Edin. Lectr †  
 Scott, J. F., B.Sc., Ph D. Glas.  
 Asst †  
 Cumming, G. A., B.Sc, Ph D.  
 Asst.†

*German†*

- Hayens, K. C, M A., D Litt.  
 Lectr †  
 Carr, C. T, M A. Lectr.†  
 Wardale, W L, M.A. Asst.†

*Hebrew and Oriental Langs.*

- Porteous, N. W, M.A., B.D.  
 Reg. Prof.

*History, American and Colonial*

- Burn, W L, B.A. Lectr.

*History, Mediæval*

- Baxter, Prof. J. H, M.A, B.D.,  
 D.Litt., D.D. Glas. Lectr.

*History, Modern*

- Williams, J. W., M.A., B.Litt. Ox.  
 Prof.  
 Sellon, H. G. R., B.A. Ox. Asst.

*Law, Scots*

- Allison, J., C.B.E., M A., LL.B.  
 Lectr.\*

*Law, Conveyancing*

- Carlton, H. J., M.A., LL.B. Lectr.\*

*Mathematics, Pure and Applied*

- Turnbull, H. W., M.A., F.R.S.  
 Reg. Prof.

\* At Dundee.

† At St. Andrews and Dundee.

Copson, E. T., M A. Ox, D Sc.  
Edin Lectr.

Timms, G., B.Sc., Ph D. Asst

Guthrie, W. G., M A. (Applied M )

Asst

Steggall, J. E A., M A. Camb

Prof \*

Bath, F., B Sc Brist, Ph.D. Camb.

Carnegie Teaching Fellow,

Lectr.\*

Simpson, Mary C., M A., B Sc

Edin Asst \*

Brown, L. M., M Sc Brist. Asst.\*

*Medicine and Surgery, v infra*

*Music*

Sawyer, F., Mus Bac. Lectr

*Natural History, v Zool*

*Philosophy*

Stout, G. F., M A Camb, LL.D,

F B A. (Logic and Meta-

physics) Prof.

Wisdom, A. J T. D., B.A. Camb

Lectr.

Mace, C A., M A (and Exper.

Psychol) Lectr †

Wright, J. N., M.A. Asst.\*

*Philosophy, Moral*

Morrison, D., M A. Prof.

*Philosophy, Natural, v. Physics*

*Physics*

Allen, H. S., M A., D.Sc., F.I.P.,

F.R.S. (Dir., Phys Res. Lab)

Prof.

Bagot, J. C. Lectr.

Jack, D., M.A., B.Sc., Ph.D. Lectr.

Arnot, F. L., B.Sc., Ph.D. Lectr.

Peddie, W., D.Sc. Edin.

Harris Prof \*

Forrest, J., M.A., B.Sc. Glas.,

D.Sc. Lectr \*

Smith, Winifred J., B.Sc., Ph.D.

Asst.\*

Smart, R., M.A. Asst.\*

*Physiology* [Chandos Prof.

Herring, P. T., M D. Edin.

Hynd, Alex., M A., D Sc Lectr.

Weston, F M. Asst.

Reid, E. W., B.A., M B., Sc D.

Camb, F.R.S. Prof \*

Stiven, D., D Sc., Ph.D. Asst.\*

*Psychology, v. Philosophy*

*Theology, v Divinity*

*Zoology*

Thompson, D'A W., C.B., M.A.,

D Litt, F R S. Prof.

Sutherland, Christina H., M A.,

B.Sc. Aber Asst.

Peacock, A D, D Sc Durh Prof.\*

Sanderson, Ann R., B.Sc., Ph.D.

Asst.\*

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc, v. *supra*)

*Anæsthetics*

Mills, A., M.D., M.R.C.P. Ed.

Lectr.\*

3 Instrs.

*Bacteriology*

Tulloch, W. J., O.B.E., M.D.,

D.P.H. Prof.\*

Morrison, H. R., M.B., Ch B.

Asst.\*

*Diseases of Children*

Price, Prof. Ll. T. (also Surg.)

Lectr.\*

Thomson, J., M.B., Ch B,

F.R.C.S. Ed. Lectr.\*

*Diseases, Mental*

Mackenzie, W. T., M.D., C.M.

Lectr.\*

*Diseases, Throat, Nose, and Ear*

Mathers, R. P., M.D., Ch.B Lectr.\*

Gibson, M. J., M.B., Ch.B. Ed.,

F.R.C.S. Ed. Clin. Tutor.\*

*Diseases, Skin*

Milne, F. M., M.A., B.Sc., M.B.,

Ch.B. Lectr.\*

\* At Dundee.

† At St. Andrews and Dundee.

*Fevers*

- Burgess, W. L., M.D., Ch.B.,  
D.P.H., D.T.M. and H.,  
M.R.C.P. Ed. Reader.\*  
Leask, R. L., B.Sc., M.B., Ch.B.,  
B.Sc. (P. Health), D.P.H.  
Asst.\*  
Keay, D. M., M.B., Ch.B., D.P.H.  
Asst.\*

*Forensic Medicine*

- ..... Lectr.\*

*Gynaecology*

- M'Gibbon, J., M.B., Ch.B. Ed.,  
F.R.C.P. Ed. Prof.\*  
Fairlie, Margaret, M.B., Ch.B.  
Asst. and Clin. Tutor.\*  
Chisholm, A. E., M.B., Ch.B.,  
F.R.C.S. Ed. Clin. Tutor.\*

*Materia Medica*

- Charteris, F. J., M.D. Glas Prof.\*  
Ames, Dorothy H. M., B.Sc., M.D.,  
D.P.H. Asst.\*

*Medicine*

- Patrick, Adam, M.A., M.D., Ch.B.  
Glas, F.R.C.P., F.R.F.P.S.  
Glas. Prof.\*  
Morgan, J. M'I., M.C., M.D.,  
M.R.C.P. Ed., D.P.H. Asst.\*

*Medicine, Chemical\***Lectrs. :*

- Charteris, Prof. F. J.\*  
Patrick, Prof. A.\*  
Foggie, W. E., D.S.O., M.A., M.D.,  
F.R.C.P. Ed.\*

*Tutors :*

- Stalker, J. M., M.B., Ch.B.\*  
Morgan, J. M'I. (also Med.)\*  
Macklin, A. H., O.B.E., M.C., M.D.\*

*Midwifery, v. Gynaecology**Ophthalmology*

- MacGillivray, A., C.M., M.D.  
Aberd., D.Sc. Reader.\*  
MacGillivray, A. M., M.D.,  
D.O.M.S. Clin. Lectr.\*  
Moodie, A. R., M.A., M.D.,  
F.R.C.S. Ed. Clin. Lectr.\*

*Pathology*

- Cappell, D. F., M.D. Prof.\*  
Tudhope, G. R., M.B., Ch.B.,  
Ph.D., D.P.H. Lectr. & Asst.\*  
Montgomery, G. L., M.D.  
Clin. Lectr.\*

*Public Health*

- Burgess, W. L. (also Fevers)  
Reader.\*  
Scott-Dickson, Margaret, M.B.,  
Ch.B., D.P.H. Asst.\*

*Radiology and Elec Therap.*

- Miller, G. H. S., M.B., Ch.B.  
Lectr.\*

*Surgery*

- Price, L. I. T., M.B., C.M., F.R.C.S.  
Ed. Prof.\*  
Melville, R. S., M.B., Ch.B.,  
F.R.C.S. Ed. Asst.\*

*Surgery, Chemical\***Lectrs. :*

- Price, Prof. L. I. T.  
Anderson, J., D.S.O., M.B., Ch.B.,  
F.R.C.S. Ed.  
Alexander, R. C., M.A., M.B.,  
Ch.B., F.R.C.S. Ed.

*Tutors :\**

- Taylor, John, M.D., Ch.M.  
Brown, F. R., M.B., Ch.B.,  
F.R.C.S. Ed.  
Melville, R. S. (also Surg.).

*Tuberculosis*

- Hunter, J. H., M.B., Ch.B.,  
D.P.H. Instr.\*

*Veneral Diseases*

- Averill, C., M.A., B.Sc., M.D.,  
D.P.H. Instr.\*

*Dentistry**Dental Anat. and Physiol. and Oral Hygiene*

- Campbell, H. G., L.R.C.P.,  
L.R.C.S. Ed., L.D.S. Lectr.\*

<i>Dental Bacteriology</i>		<i>Dental Materia Medica</i>	
Cassaday, E. E., M.B., Ch.B., D.P.H., L.D.S.	Lectr.*	Fraser, W. C., L.R.C.P., L.R.C.S. Ed., L.D.S.	Lectr.*
<i>Dental Histology</i>		<i>Dental Surgery and Pathology</i>	
Anderson, D. L., L.D.S.	Lectr.*	Tattersall, W. R., L.D.S.	Lectr.*
<i>Dental Mechanics</i>		<i>Operative Dental Surgery</i>	
Bruce, J., L.D.S.	Lectr.*	Petrie, J. M., L.D.S.	Lectr.*
<i>Dental Metallurgy</i>		<i>Orthodontia</i>	
Lamond, D. C., L.D.S., R.C.S.	Ed Lectr.*	Campbell, W. G., M.B., C.M., L.D.S., D.D.S.	Lectr.*

\* At Dundee.

## GENERAL INFORMATION, v. also pp. 288 ff.

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

**LIBRARY:** 250,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. **MUSEUMS** at St. Andrews—Anat., Anthropol., Ethnol., Geol., Mineral, Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. **LABORATORIES** at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol.

**FACULTIES.** Divinity, Arts, Science, Medicine. Deans : ..... Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

### ADMISSION, v. Appendix XXII.

**DEGREES, ETC.,** v. also pp. 289 ff. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Pol. Econ.—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely, in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law and Conveyancing. Associated with the Univ. is the Dundee School of Social Study and Training.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos., at least two must be linguistic, and at least one scientific. *Senatus* can, on recommendation of the Fac. of Arts, allow another subject or subjects to be taken in lieu of Lat. or Greek. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted

exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

*Diplomas*: Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; D.P.D., 5 mos. after obtaining registrable Dental qualification.

**FEES for Tuition** (v. Carnegie Trust, p. 292). M.A., £47 : 5s.; Hons. M.A., £63; B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc., and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220; L.D.S., £88 : 10s.; M.B., Ch.B., and L.D.S., £208 : 7s.; D.P.D., £25; D.P.H., £31 : 10s. The above do not include fees for hospi. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.D. or Ch.M., 20 gs.; D.Litt. or D.Sc., 15 gs.; Ph.D., L.D.S., or D.P.H., 10 gs.; B.Phil. or B.Litt., 6 gs.; D.P.D., 5 gs. Dipl. or Certif. in Social Study, 4 gs. Dipl. in Educ., £4 : 14 : 6.

**ADVISERS OF STUDENTS.** At St. Andrews: in Arts, Prof. Webster; in Sci., Prof. Herring; in Med., Prof. Waterston. At Dundee: in Arts and Sci., Prof. Stegall; in Med., Prof. Charteris.

**RESIDENCE.** University Hall, Kinnessburn, Afton and Chatten House for Women (Warden) at St. Andrews, £66 and upwards p.a., excl. of tuition fees. Hostel for women students, Dundee (Warden), £62 : 10s. p.a. St. Salvator's Hall, Deanscourt, and Seaview for men (Warden) at St. Andrews, £57 p.a. and upwards, excl. of tuition fees.

**SCHOLARSHIPS FOR GRADUATES**, v. also pp. 293-4: 14, annual value about £1711. Scholarships tenable in other countries: Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

**UNIVERSITY APPOINTMENTS BOARD.** Secretary—D. J. L. Ritchie, B.L.

An **ALUMNUS ASSOCIATION** was founded in 1926. **ST. ANDREWS UNIV. CLUB, LONDON**, founded 1904. Hon. Sec.—W. C. Dickinson, M.A., Ph.D., D.Litt., London School of Economics, W.C.2. **LONDON ASSOCIATION OF ST. ANDREWS UNIV. WOMEN**, founded 1926. Sec.—Miss H. G. Proctor, M.A., Bedford College, Regent's Park, London, N.W.1. Alumnus Clubs also exist in Aberdeen, Birmingham, Dundee, Edinburgh, Fife, Glasgow, Harrogate, Manchester, Montreal, Newcastle-on-Tyne, Selkirk, Stirling, Toronto.

**PUBLICATIONS.** *Calendar* (Sept.). 3s. 6d.; U. Coll. Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee); Alumnus Association's *Chronicle* (half-yearly).

## THE YEAR 1931-32

**BENEFACTIONS.** Silver Bowl by Lady Herkless, Gold Box by Rev. Canon Nairne, Silver Bowl by Lord Sands, £100 to the Chem. Dept. for Research by Imperial Chemical Industries, Ltd., £100 by Miss Agnes L. Rogers, £200 to Students' Unions and £50 for Students' Canadian Tour by Dr. William Low, £39 by subscribers for Burnet Memorial Prize, numerous gifts of MSS. and books to Univ. Library, photo-micrographic apparatus by Emer. Prof. Musgrove to Anat. Dept.

**NEW BUILDINGS.** Repair and restoration of Seaview Residence for men students; restoration of Physics and Chem. Labs. damaged by fire; con-

tinuation of building for Geol. and Bot. Depts. at Bute Med. Buildings; re-building and extension of Greenhouses in Botanic Garden; repair and restoration of St. Mary's Coll. Buildings, including Janitor's House, building of Gardener's Lodge, Univ. Hall.

NEW POSTS. Asst. in Chem., St. Andrews; Lecture Asst. in Chem., Univ. Coll., Dundee.

RELATIONS WITH OTHER INSTITUTIONS. Exchange of students with German Univs. through medium of Anglo-German Academic Bureau.

EXTRA-MURAL CLASSES. Railway Law, 21; Courses of Lectures (Adult Educn.) were conducted in 15 centres. 800 enrolments.

DEATH. Sir Patrick Geddes, Emer. Prof. of Botany, Univ. Coll., Dundee.

RESIGNATION. W. H. Morton (Bacteriol.).

HONORARY DEGREES. *D.D.*—Rev. C. G. Cooper, Rev. A. C. Don, Rev. K. Macleod, Very Rev. W. R. Matthews, Rev. G. R. S. Reid, Rev. C. J. Ritchie, Geh. Kirch. E. Sellin, Dr. theol. et phil. *LL.D.*—Rt. Hon. Baron Irwin, Dr R. C. Buist, D. M. Greig, Rt. Hon. Earl of Strathmore, James Brebner, W. C. Leng, Sir James G. Frazer, Sir R. W. Livingstone, Rt. Hon. Lord Macmillan, R. MacGregor Mitchell, James Robb, Dr. Albert Schweitzer, Emer. Prof. L. R. Sutherland.

STUDENTS. Full-time: total, 848; research, 39; preparing for a first degree, 785; diploma students, 24. Part-time: total, 122; research, 25; diploma, 45; occasional, 52.

DEGREES. M.A., 116; B.Sc., 36; B.D., 4; Ph.D., 13; M.D., 3; M.B., Ch.B., 24; D.P.H., 5; L.D.S., 3; D.P.D., 1; Dipl. in Educn., 22; Hons. granted subsequent to Graduation: Arts, 42; Sci., 14.



# THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDON-  
DERRY, K.G., P.C., M.V.O., LL.D.

PRO-CHANCELLORS—Sir WM WHITLA, M.A., M.D., LL.D., D.Sc.; The  
Rt. Hon. LORD JUSTICE ANDREWS, B.A.; Col. T. SINCLAIR, C.B.,  
M.D., M.Ch., F.R.C.S. Eng, M.P.

PRESIDENT AND VICE-CHANCELLOR—Sir R. W. LIVINGSTONE, M.A. Ox.,  
D.Lit.

REPRESENTATIVE IN THE PARLIAMENT OF THE UNITED KINGDOM  
—Col. T. SINCLAIR, C.B., M.D., F.R.C.S. Eng.; IN PARLIAMENT  
OF NORTHERN IRELAND—Rev. Prof. R. CORKEY, M.A., Ph.D.;  
Prof. R. J. JOHNSTONE, B.A., M.B., F.R.C.S.; R. N. McNEILL, B.A.,  
LL.B.; J. H. ROBB, B.A., K.C.

REGISTRAR—GREGG WILSON, O.B.E., M.A., Ph.D., D.Sc.

HON. TREASURER—Major D. G. SHILLINGTON, D.L., M.P.

LIBRARIAN—KENNETH POVEY, M.A.

SECRETARY—ANDREW PICKEN, B.A., LL.B., B.L.

SECRETARY OF ACADEMIC COUNCIL—Prof R. M. HENRY, M.A.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—The Rt. Hon. Mr. JUSTICE BROWN, B.A.

## PROFESSORS, LECTURERS, ETC.

*Accounting*, v. Comm.

*Agriculture*, v. *infra*

*Anatomy*

Walmsley, T., M.D. Glas. Prof.

Junter, R. H., M.D., M.Ch., Ph.D.

Lectr.

Malcolm, H. P., M.B., M.Ch.

Lectr.

Baxter, J. S., M.B., M.Sc. Asst.

Boyd, J. D., M.B., M.Sc. Asst.

McNeill, J. C., M.A., L.D.S. (Dent.

tal A.) Demr.

Hall, H. P., M.B. Pt-time Asst.

*Archæology and Ancient History*

Macavies, O., B.A. Ox. Lectr.

*Bio-Chemistry*

Milroy, J. A., M.A., M.D. Edin.

"J. C. White" Prof.

Andrews, S., M.B., B.Sc.

"J. C. White" Lectr.

Beattie, Florence J. R., M.Sc.

Jr. Lectr.

Loughridge, J. S., M.D., F.R.C.S.

(Bio-Phys.) Asst.

*Botany*

Small, J., D.Sc. Lond. Prof.

Lynn, Mary J., M.Sc. Lectr.

Chambers, E. M., B.Sc. Demr.

Kertland, M. P. H., M.Sc.

Hon. Herbarium Asst.

*Celtic*

O'Brien, M., M.A., Ph.D. Lectr.

*Chemistry*

Stewart, A. W., D.Sc. Glas. Prof.  
 Marsh, J. K., D.Sc. Jr. Lectr.  
 Capper, N. C., D.Sc. Asst.  
 Canning, Georgina E., M.Sc. Asst.

*Chemistry, Organic*

Graham, Hugh, D.Sc. Reader.

*Classics*

McElderry, R. K., M.A.  
 (Greek). Prof.  
 Henry, R. M., M.A. (Latin) Prof.  
 Tierney, J. J., M.A. Asst.

*Commerce*

Meredith, H. O., O.B.E., M.A.  
 Camb., M.Com. Manc.  
 Dean of Fac., Lectr. in  
 C. and Prof. of Econ.

Recognized Teachers in the  
 Munic. Coll. of Tech :

Dodd, F. T. Lloyd, M.A., D.Sc.  
 Prof.  
 Montgomery, J., B.Com.Sc. (Ac-  
 counting).  
 Wray, D. C., LL.D. (Coml. Law).  
 Dunne, T. J., B.Com.Sc. (Econ.,  
 Geog., and Business Methods).  
 Sueyras, M. (Spanish).  
 Carson, J. H. A., M.A. (Maths.).

*Dentistry, v. infra*

*Economics, v. Agric. Econ.,  
 Comm, Hist.*

*Education*

M'Callister, W. J., M.A., B.Sc.  
 Prof.  
 Curran, A. M., B.A. Asst.

*Engineering, Civil*

Hummel, F. H., M.Sc. Birm. Prof.  
 Finnan, E. J., M.Sc. Lectr.

*English Language*

Belfour, A. O., M.A. Ox. Reader.

*English Literature*

Baxter, F. W., M.A. Ox. Prof.  
 White, H. M. O., M.A. Lectr.  
 Curgenvin, J. P., M.A. Ox.  
 Jr. Lectr.

*Fine Arts (Sculpture)*

MacLagan, E. R. D., C.B.E., F.S.A.  
 (for 1932-33) Lectr.

*French and Romance Philology*

Savory, D. L., M.A. Ox., O.A.,  
 O.I.P. Prof.  
 Johnson, Elsie, M.A., D. de l'U.  
 Paris Asst.  
 Muffang, May L., L ès L Paris ,,

*French, Mediæval*

Arnold, I. D. O., Dr. de l'U. Stras.  
 Lectr.

*Geography*

Evans, E. E., M.A. Lectr.

*Geology*

Charlesworth, J. K., D.Sc. Leeds,  
 Ph.D. Bres. Prof.  
 Hartley, J. J., M.Sc., M.Eng.  
 Jr. Lectr.

*German*

Waterhouse, G., M.A. Camb.,  
 Litt D. Dub. Prof.  
 Beare, Mary, M.A., Ph.D.  
 Jr. Lectr.

*History, Ancient, v. Archæol.**History, Economic, and Polit. Sc.*

Lemberger, J., M.A. Ox. Lectr.

*History, Mediæval*

Betts, R. R., B.A. Lectr.

*History, Modern*

[Prof.  
 Todd, J. E., M.A. Ox. and Edin.  
 Moody, T. W., B.A. Asst.]

*Law*

Baxter, J. S., M.A., LL.D. Dub.,  
 K.C. (Dean of Faculty) Prof.  
 Curran, L. E., B.A., LL.B. Lectr.

## Special Lecturers :

MacDermott, J. C., B.A., LL.B.  
 McKean, E. J., M.A., K.C.

*Logic and Metaphysics*

Macbeath, A., M.A. Glas. Prof.  
 Shillinglaw, A. T., M.A. Camb.,  
 B.Phil. St. And. Lectr.

*Mathematics*

Semple, J. G., M.A., Ph.D. Camb.  
 Prof.  
 Cooper, R., M.A., Ph.D. Lectr.  
 Killeen, A. K., B.A. Asst.

*Music*

Brennan, C. J., Mus.Bac. Lectr.

*Philosophy, Moral, and History  
of Philos.*

de Selincourt, O., M.A. Ox. Lectr.

*Philosophy, Scholastic*Ryan, Rev. A. H., B.A., D.D.,  
Ph.D. Lectr*Physics*Morton, W. B., M.A. Camb. Prof.  
Emeléus, K. G., M.A., Ph.D.Sloane, R. H., M.Sc. Asst.  
Greeves, F. D., M.Sc. Sr. Demr.  
Quinlivan, M. H., M.Sc. Jr. Demr.  
Beck, Louise, M.Sc. Hon. Demr.*"Musgrave" Demrs. :*M'Gregor, E. I. R., B.Sc.  
Malone, J., B.Sc.*Physiology*Milroy, T. H., M.D., B.Sc. Edin.,  
LL.D., F.R.S.E. Prof.  
Gillespie, J. H., M.B. Demr.  
Strain, R. W. M., M.B., B.Sc.  
Rankin, J. C., M.D. Hon. Demr.*Spanish*Llubera, I. G., M.A., D. Litt. Mad.  
Prof.  
Crews, Cynthia, M.A., Ph.D. Asst*Technology, v. infra**Zoology*Flynn, T. T., D.Sc. Prof.  
Williams, G., M.Sc. Demr.  
Kerr, T., M.A. Demr.*Agriculture**Agr. Botany and Plant Diseases*Mercer, S. P., B.Sc. (Dean of Fac.)  
Prof.  
Muskett, A. E., M.Sc., A.R.C.S.  
Lectr.  
Cairns, H., B.Sc., M.Agr. Jr. Lectr.  
Linehan, P. A., B.Agr.Sc. Asst.  
Seaton, I. W., B.Sc.  
(Plant Genetics) Lectr.  
Wilson, E. V. B., B.Sc. Asst.*Agr. Chemistry*Baskett, R. G., M.Sc. Lectr.  
Dickinson, F., B.Sc. Lectr.  
Houston, J., M.Sc. Jr. Lectr.  
Baird, J. C., B.Sc., B.Agr.  
Jr. Lectr.  
Common, R. H., B.Sc., M.Agr.  
Asst.  
Prentice, J. H., B.Sc., B.Agr.  
Asst.*Agr. Economics*

Harkness, D. A. E., M.A. Lectr.

*Agr. Zoology*

Chamberlain, R., B.Sc. Lectr.

*Animal Hygiene and Dairy**Bacteriology*  
Lamont, H. G., M.Sc., M.R.C.V.S.  
Lectr.*Assts :*Kerr, W. R., M.R.C.V.S.  
Shanks, P. L., M.R.C.V.S.  
Clerkin, P., B.Agr.Sc.  
Omand, J., B.Sc., M.R.C.V.S.*Crop and Animal Husbandry*Rae, R., B.Agr. Prof.  
Hale, R. W., B.Sc. Asst.*Medicine*(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)*Bacteriology*Graham, N. C., M.B., D.P.H.  
"J. C. White" Lectr.  
Bartley, Eileen O., M.D. Asst.*Gynaecology*Johnstone, R. J., B.A., M.B.,  
F.R.C.S. Eng. Prof.  
Lowry, H. C., M.B., F.R.C.S.  
Edin. Asst.*Hygiene, v. Pub. Health and  
San. Science**Infant Hyg. and Diseases of  
Children*

Allen, F. M., M.D., M.R.C.P. Lectr.

*Materia Med. and Therapeutics*

Allen, F. M., M.D., M.R.C.P. Lectr.

*Medical Jurisprudence*

The Prof. of Pathology Lectr.  
Houston, Sir Thomas, B.A., M.D.  
Lectr.

*Medicine*

Thomson, W. W. D., B.A., M.D.,  
B.Sc., D.P.H., F.R.C.P. Prof.  
Davison, J. C., M.D., B.Sc. Asst.  
2 Clinical Lectrs.

*Midwifery and Infantile Diseases*

Lowry, C. G., M.D., F.R.C.S. Prof.  
Woods, A., M.B. Tutor.  
M'Clure, Ian, M.B. Hon. Demr.  
McAfee, C. H. G., M.B., F.R.C.S.  
Hon. Demr.

1 Clinical Lectr.

*Ophthalm. and Otology* [Lectr.]

Craig, J. A., M.B., F.R.C.S. Eng.  
2 Clinical Lectrs.

*Pathology*

Young, J. S., M.A., B.Sc., M.D.  
Musgrave Prof.  
Houston, Sir Thomas, B.A., M.D.  
(Clin. Bacteriol. and Hæmatol.)  
Lectr.  
Haslett, T. B. H., M.B. Hon. Lectr.  
M'Cullagh, G. P., M.D., B.Sc.  
Riddell Demr.

*Pharmacology*

Mayrs, E. B. C., M.D. Prof.

*Public Health*

Wilson, W. J., B.A., M.D., D.Sc.,  
D.P.H. Prof.  
Thomson, C. S., M.D., D.P.H.  
(Administration) Lectr.  
Blair, E. Maude McV., M.Sc.,  
Ph.D. Asst.

*Sanitary Science*

Wilson, Prof. W. J. Prof.  
Totton, J. H., B.A., B.Sc. (P.H.  
Chem.) Lectr.

*Surgery*

Fullerton, A., C.B., C.M.G., M.D.,  
M.Ch., F.R.C.S.I., F.A.C.S.  
Prof.  
Fraser, Ian, M.B., F.R.C.S. Asst.  
2 Clinical Lectrs.

*Surgery, Oper., and Applied Anat.*

Crymble, P. T., M.B., F.R.C.S.  
Eng. Lectr.

*Vaccination*

[Teacher.  
Armstrong, S. R., O.B.E., M.B.]

*Dentistry*

Hunter, W. M., L.D.S. Edin.  
(Metallurgy) Lectr.  
Elwood, H., L.D.S. Edin. and  
Penn. (Mechanics) Lectr.  
Swan, W. M., L.D.S., R.C.S. Eng.  
(Surgery) Lectr.  
McKeag, H. T. A., B.D.S., B.A.  
Dub. (Orthod.) Lectr.  
Geddes, S., M.B. (Anæsthetics)  
Lectr.

*Extra-Mural Studies*

Eason, H. J., B.Sc. Lectr. & Dir.

*Technology*

(v. also Agr. and Engin.)  
Extra-Mural Staff (Hon.), being  
Profs. and Lectrs at the  
Munic. Coll. of Tech.

*Architecture*

Beaumont, I., A.R.C.A. Prof.  
*Building Construction*  
Hampshire, T. R. Lectr.

*Chemical Technology*

Wren, H., M.A., D.Sc., Ph.D. Prof.  
Still, C. J., M.Sc., Ph.D., A.I.C.  
Lectr.  
Hughes, K. R., B.A. Lectr.  
Porter, J. W., A.R.C.S.I. Lectr.

*Electrical Engineering and Physics*

Burns, P. L., B.Sc. Prof. (Elec. E.).  
Yeates, J. F., B.Sc. Lectr.  
Allen, T. P., M.Sc. Lectr.  
Crowley, T. A., B.Sc. Lectr.  
Davies, A. L., M.Sc. Lectr.

*Mathematics*

Earls, J., B.A. (Principal) Prof.  
Murphy, J. J. F., B.Sc. Lond.  
Lectr.

<i>Mechanical Engineering</i>	[Prof. Sandham, B., B.E. (Nav. Archit.)
nith, J. H., D.Sc., A.R.C.S.	Lectr.
arnock, F. V., B.Sc., Ph.D.,	<i>Textile Industries</i>
A.R.C.S.	Lectr. Bradbury, F., B.Sc. Prof.

## RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, *v. supra*—Commerce and tech. The complete course for the B.Sc. in Engineering or in Textile Technology may be taken at this college.

THE PRESBYTERIAN COLLEGE, BELFAST. The complete course for the B.D. may be taken at this college.

## GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 115,000 vols. MUSEUMS: Class. Archæol., Nat Hist, Medical,ateria Medica. LABORATORIES: Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Pathology and Bacteriology ("Musgrave"), Bio-Chemistry and Bacteriology ("White"), Physics, nat., Bot., Geol., Pharm., Zool., Agric. HOSPITALS available for Clinics: general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine (including Dentistry), (5) Commerce, (6) Applied Science and Technology, (7) Agriculture, (8) Theology Deans of Faculties: Profs. (1) J. E. Todd (Arts), (2) J. Small (Science), (3) J. S. Baxter (Law), (4) W. J. Wilson (Med.), (5) H. O. Meredith (Commerce), (6) F. H. Hummel (App. science), (7) S. P. Mercer (Agric.), (8) R. K. M'Elderry (Theol.).

ADMISSION. See Appendix XXII.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., L.B., B.Com.Sc.; 4 yrs.—B. Agr., B.D.S.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., B.Ch., B.A.O.; 2 yrs.—LL.B. course and B.D. course for graduates of this or another Univ.

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. or B.Com.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

*Diplomas.* Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for grads.), 1 yr.; Public Health (for grads. in Med.), 2 yrs.; Lic. in Dent. Surg., 4 yrs.; Dipl. in psych. Med. (for grads. in Med.), 1 yr.

HIGHER DEGREES. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or hist. research; they may also be obtained by thesis or published works. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred on research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The

M.D., M.Ch., and M.A.O. are open to grads. in Med. of 3 yrs.' (if also grads. in Arts or Science, 2 yrs.' standing) by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or a graduate admitted *ad eund.* after 2 yrs., for a thesis or independent research. The D.D. is open to grads. in Divinity of this Univ. of at least 6 yrs.' standing. As regards Ph.D. *see* p. 14.

Fees. Enrolment (annual), £3 : 10s. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 12 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B.Agr., 22 gs.

SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ. Studentships of £50. 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Schol'p, £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., v. App. xxiii. 17. Four other Studentships of the aggregate annual value of £330.

RESIDENCE. Women's Hostel. Board and residence per annum, about £52. Board and lodging obtainable in the town from about 25s. a week upwards.

APPOINTMENTS COMMITTEE. Chairman, The Vice-Chancellor.

ASSOCIATIONS. A Queen's Univ. Assocn. has been formed, Secs., Major Geo. Thomson, D.S.O., Parliament Buildings, Belfast, and Dr. R. H. Hunter, Queen's University, Belfast.

There is also a Queen's University Club which meets in London. Secy, R. L. Rea, M.D., F.R.C.S., 101 Harley St., London, W.

RECOGNITION OF OTHER UNIVS. Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science in, consideration of equivalent courses and examns. elsewhere.

UNIVERSITY EXTENSION lectures by members of the Univ. Staff are given in Belfast and other towns.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Students' mag, *The Northman*.

## THE YEAR 1931-32

BENEFACTIONS. Bequest of £560 from Mr. Robert Harkness. Bequest of £500 from Emer. Prof. J. A. Lindsay. Travelling Scholarship for Women Students from the Alpha Club, Belfast. Gifts for Women Students' New Athletic Pavilion from Mrs. George Young and the Queen's Univ. Assn. Grant for equipment of Library from Queen's Univ. Guild.

NEW BUILDINGS. New Pavilion for Women Students erected at Univ. Athletic Grounds.

NEW DEVELOPMENTS. New Professorship in Crop and Animal Husbandry. New Junior Lectureships in Eng. Lit., German, Agric. Chem., Agric. Bot. New Assistantship in Dental Anat. Second Assistantship in Zool. New Course in Industrial Sci.

RESIGNATIONS AND RETIREMENTS. Prof. R. A. Williams (German), on appointment to Schröder Chair of German in Cambridge. Dr. V. G. L. Fielden (Lectr. in Pharmacy and Dental Mat. Med.), retired.

HONORARY DEGREES. LL.D.—Miss Edith Helen Major. D.Sc.—Emer. Prof. A. C. Dixon.

STUDENTS. Full-time: total, 1150, including 41 graduates. Part-time 311, including 85 graduates.

DEGREES. D.Lit., 1; M.D., 8; Ph.D., 3; M.A., 3; M.Sc., 16; M.Com.Sc., 3; M.Agr., 1; B.A., 95; B.Sc., 55; LL.B., 6; M.B., 50; B.Com.Sc., 7; B.Agr., 8; B.D.S., 1; B.D., 3; L.D.S., 8; D.P.H., 14; H.Dip. in Ed., 32; Dip. in Ed., 24; Dip. Psy. Med., 1.

# UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—The Rt. Hon. THE EARL OF IVEAGH, C.B., C.M.G., LL.D.  
VICE-CHANCELLOR—The Rt. Hon. Sir THOMAS F. MOLONY, Bart., LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); The Hon. Mr. JUSTICE GERALD FITZGIBBON, LL.D.

PROVOST—E. J. GWYNN, Litt.D., D.Litt., LL.D.

LIBRARIAN—J. G. SMYLY, M.A., Litt.D.

REGISTRAR—W. A. GOLIGHER, M.A., Litt.D.

LADY REGISTRAR—CHRISTABEL F. GODFREY, M.A.

REPRESENTATIVES IN PARLIAMENT OF IRISH FREE STATE—E. H. ALTON, Litt.D.; Sir JAMES CRAIG, M.D.; W. E. THRIFT, M.A.

## SENIOR FELLOWS OF THE COLLEGE—

Roberts, Rev. W. R. W., D.D., <i>Vice-Provost.</i>	†Macran, H. S., M.A., <i>Sr. Dean.</i>
Russell, R., M.A., <i>Bursar.</i>	Thrift, W. E., M.A., <i>Auditor.</i>
Fry, M. W. J., M.A., <i>Sr. Lectr. and Catechist.</i>	Smyly, J. G., M.A., Litt.D., <i>Librarian.</i>
	Mooney, G. W., M.A., Litt.D.

## JUNIOR FELLOWS OF THE COLLEGE—

Kennedy, W., M.A., <i>Sr. Proctor and Sr. Tutor.</i>	Rowe, C. H., M.A., M.Sc.
†Goligher, W. A., M.A., Litt.D., <i>Registrar and Sr. Tutor.</i>	Fearon, W. R., M.A., Sc.D., M.B., F.I.C.
*Fraser, J., M.A.	Starkie, W. F., M.A., Litt.D., D.Lit
Alton, E. H., M.A., Litt.D.	Bailey, K. C., M.A., Sc.D., Litt.D., D. de l'U. Toulouse, <i>Jr. Dean.</i>
*Gwynn, Rev. R. M., M.A., B.D.	Ditchburn, R. W., M.A., B.Sc., Ph.D.
*†Tate, Sir Robert W., K.B.E., M.A., Public Orator.	*†Parke, H. W., M.A., <i>Jr. Proctor.</i>
*Thrift, H., M.A.	M'Connell, A. J., M.A., M.Sc., D. d'U. Rome, Sc.D.
*†Luce, Rev. A. A., M.A., D.D.	*Duncan, G. A., M.A., LL.B.
*Johnston, J., M.A.	*†Broderick, T. S., M.A.
*†Henry, J. M., M.A.	
*†Godfrey, F. La T., M.A.	
Joly, John, Sc.D., D.Sc., LL.D., F.R.S.	

\* Tutor Fellows.

† Honor Lecturers for 1932-33.

## PROFESSORS, LECTURERS, ETC.

- Anatomy, Human, and Embryol*,  
v. also Zool.  
Dixon, A. F., M.B., Sc.D. Prof.  
Martin, C. P., M.B., M.Sc. Chief Demr.  
Henry, R. F. J., M.B. (Applied Anat.) Lectr.  
*Anglo-Saxon*  
..... Lectr.  
*Art, History of*  
Bodkin, T., D.Litt. N.U.I. Hon. Prof.  
*Astronomy*  
Royal Astronomer of Ireland (suspended) Prof.  
Martin, C., M.A. Asst.  
*Biochemistry v. Medicine, infra*  
*Botany and Plant Biol.*  
Dixon, H. H., Sc.D., F.R.S. Prof.  
Wager, H. G., B.A. Camb., B.Sc. Lond., M.A. Asst.  
*Celtic Languages*, v. also Irish  
Knott, Eleanor, M.A. Lectr.  
*Chemistry*  
Werner, E. A., M.A., Sc.D., F.I.C. Prof.  
Ramsden, W. C., M.A. Sr. Asst.  
Bailey, K. C., M.A., Sc.D., Litt D. Lectr.  
*Classical Archæol.*, v. Hist., Anc.  
*Classics*  
Mooney, G. W., M.A., Litt D. (Greek) Regius Prof.  
Alton, E. H., M.A., Litt.D. (Latin) Prof.  
Tate, Sir R. W., K.B.E., M.A. (Class Composition) Lectr.  
The Tutorial Staff Lectrs.  
*Commerce*, v. also French, German, Spanish  
Lectrs.:  
Johnston, J., M.A. (Econ.)  
Duncan, G.A., M.A., LL.B. (Econ.)  
Maxwell, Constantia E., M.A., Litt.D. (Econ. Hist.).  
Smyth, L. B., Sc D. (Comm. Geog).  
Butler, W. B. (Accounting).  
Beere, Thekla J, LL B. (Statist. Method).  
Smyth, G. E., O.B.E., M.A. (Bus. Organ., Rys and Transport).  
Moran, Frances E, LL.D. (Comm. Law).  
Howell, C. E., M.A., LL.D. (Insurance).  
Magrath, C. R. R. (Banking and Foreign Trade).  
*Dentistry*, v. *infra*  
*Divinity*, v. Theol. *infra*  
*Economics*, v. Commerce  
*Education*  
Fynne, R. J., M.A. Dub. and Lond. Prof.  
Henry, J. M., M.A. Lectr.  
*Engineering, Civil*  
Clark, D., M.A., B.Sc. Lond., M.I.C.E. Prof.  
Cotter, J. R., M.A. Lectr.  
Jackson, J. T., M.A. Asst.  
M'Cormick, F. R. A., M.A., A.R.C.S.I. Asst.  
*Engineering, Electr.*  
Tatlow, W., M.A., B.A.I. (Practice of E. Eng.) Lectr.  
Harriss, G. M., M.A. (Elect. Trac-tion) Lectr.  
*Engineering, Harbour*  
Griffith, Sir J. P., M.A.I. Hon. Prof  
*Engineering, Sanitary*, v. Public Health  
*English Literature*  
Trench, W. Fitz J., M.A. Camb. and T.C.D., Litt.D. Prof.  
French, R. B. D., M.A. Asst.  
*French*  
Rudmose-Brown, T. B., M.A. Dub. and Aberd, Litt D., D. de l'U. Grenoble Prof.  
Leventhal, A. J., M.A. Lectr.



*Geography*

Smyth, L. B., M.A., Sc.D. Lectr.

*Geology and Mineralogy*Joly, J., M.A., Sc.D., D.Sc., F.R.S.  
Prof.Poole, J. H. J., M.A., Sc.D.  
Research Asst.Smyth, L. B., M.A., Sc.D.  
Lectr. in Palæontol. and Asst.*German*Liddell, M. F., Ph D., M.A. Edin.  
Prof*Hebrew*, v. *infra* Orient Langs.*History, Ancient, and Classical  
Archæol.*

Golgher, W. A., M.A., Litt.D. [Prof.]

Parke, H. W., M.A. Asst.

*History, Ecclesiastical*, v. Theol.  
*infra**History, Indian*

Hart, Lt.-Col. E. G., M A. Reader.

*History, Modern*, v. also Oratory  
and Hist.Curtis, Prof. E., M.A. Dub. and  
Ox., Litt.D. Prof.Phillips, W. A., M A. Dub. and  
Ox., Litt D. Lecky Prof.Maxwell, Constantia E., M.A.,  
Litt.D. Lectr.*Irish*O'Toole, E, M.A. Dub. and N.U.I.  
Prof.

Beaumont, J N., M.A. Asst.

*Italian*

Tate, Sir R. W., K.B.E., M.A. [Lectr.]

Starkie, W. F., Litt D. (Ital. Lit.)  
Lectr.*Law*, v. *infra**Mathematics*Rowe, C. H., M.A.  
Erasmus Smith's Prof.  
Broderick, T. S., M A.

Donegal Lectr.

Cotter, J. R., M.A. Honor Lectr.

The Tutorial Staff Lectrs.

*Medicine*, v. *infra**Music*Kitson, C. H., M.A. Camb.,  
Mus.D. Ox., F.R.C.O. Prof.*Oratory and Hist.*, v. also Hist.,  
Mod.Curtis, E., M.A. Dub. and Ox.,  
Litt.D.

Erasmus Smith's Prof.

*Oriental Langs.*, v. *infra**Philosophy*

Macran, H S., M.A. (Moral P.) [Prof.]

Hartford, R. R., M.A. (Ment. and  
Moral Sci) Hon. Lectr.

The Tutorial Staff Lectrs.

*Physics*M'Connell, A. J., M.A., M.Sc.,  
Sc.D. (Nat. Philos.) Prof.Ditchburn, R. W., M.A. Dub. and  
Camb., B.Sc. Liv., Ph.D.Camb. (Nat. and Exper.  
Philos.)

Erasmus Smith's Prof.

Braddick, H. J. J., B.A. and Ph D.  
Camb. Research Asst.Thrift, H., M.A. (Exper. Phys.)  
Lectr.Poole, J. H. J, M.A., D.Sc.  
(Exper. Phys) Lectr.*Physiology*Pringle, H., M.D., F.R.C.P.I.,  
F.R.C.S.I.King's Prof. Insts. of Med.  
Hopkins, Sir F. G., LL.D., D.Sc.,  
F.R.C.P., F.R.S.John Mallet Purser Lectr.  
Fearon, W. R., M.A., M.B., Sc.D.

Sr. Asst.

Bell, J., M.A., Sc.D. Jr. Asst.

Torrens, D. S., M.A. Jr. Asst.

*Political Economy*, v. also Comm.

..... Prof.

*Romance Languages*, v. alsoFrench, Italian, Spanish  
Rudmose-Brown, T. B., M.A. Dub.and Aberd., Litt.D., D. de  
l'U. Grenoble Prof.*Spanish*

Starkie, W. F., M.A., Litt.D. Prof.

*Theology, v. infra**Zoology and Compar. Anat*

Gatenby, J. B., B.Sc., D.Phil. Ox.,  
D.Sc. Lond., M.A., Ph.D.

Prof.

Patten, Ruth E. P., B.A., M.Sc.

Asst.

*Law*

..... Reg Prof. of Laws.

Moran, Frances E., M.A., LL.D.

Hon. Lectr. in Law.

*Civil Law and Genl. Jurispr.*

M'Kenna, C. B., LL.D. Lectr.

*Feudal and English Law*

Baxter, J. S., LL.B. Lond., M.A.,  
LL.D. Reg. Prof.

*Indian Law*

..... Lectr.

*Penal Legislation, Const. and  
Crim. L., and L. of Evid.*

Powell, A., M.A. Reid Prof.

*Medicine (Physic)*

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

Moorhead, T. G., M.D., D.P.H.,  
L.M., F.R.C.P.I.

Reg. Prof. of Physic.

Craig, Sir Jas., M.D. (Practice of  
Med.) King's Prof.

*Anatomy and Chirurgery*

Dixon, A. F., M.B., Sc.D. Prof.

Martin, C. P., M.B., M.Sc.  
Chief Demr. and Univ.  
Anatomist.

*Anatomy, Applied*

Henry, R. F. J., M.B. Lectr.

*Anæsthetics*

Kirkpatrick, T. P. C., M.D.,  
Litt.D., F.R.C.P.I. Lectr.

*Bacteriology and Preventive Med.*

Bigger, J. W., M.D., Sc.D., D.P.H.,  
F.R.C.P.I. Prof.

Dockeray, G. C., M.B. Asst.

Griffiths, L. Ll., M.B. Asst.

*Biochemistry*

Fearon, W. R., M.A., M.B., Sc.D.  
Lectr.

Thompson, A. G., M.B., M.Sc.  
Rockefeller Foundn. Fellow.

*Biophysics*

Bell, J., M.A., Sc.D. Lectr.

*History of Med.*

Kirkpatrick, T. P. C., M.D.,  
Litt.D., F.R.C.P.I.

Hon. Lectr.

*Laryngology and Otology*

Woods, Sir Robert H., M.B.,  
M.Ch. Hon. Prof

*Materia Medica and Pharmacy*

Rowlette, R. J., M.D., F.R.C.P.I.  
King's Prof.

*Medical Jurisprudence*

Bewley, H. T., M.D., F.R.C.P.I.  
F.R.C.S. Eng. Lectr.

*Midwifery*

Wilson, T. H., M.A., F.R.C.P.I.,  
L.R.C.S.I. King's Prof.

*Neurology*

Purser, F. C., M.D. Hon. Prof.

*Pathology*

Wigham, J. T., M.D., D.P.H.,  
F.R.C.P.I. Prof.

Lait, J., M.B. Asst.

Pringle, S., M.B., F.R.C.S.I (Path.  
of Bone) Hon. Lectr.

*Public Health**Lecturers:*

Delap, A. D., M.A., B.A.I.,  
M.I.C.E. (San. Constrn. and  
Planning).

Bigger, Sir E. C., M.D., M.S.,  
D.S.M., R.C.P.S.I. (San. Law  
and P.H. Administrn.).

Bigger, J. W., M.D., Sc.D., D.P.H.,  
F.R.C.P.I. (Vital Stat.).

Ramsden, W. C., M.A. (Chem.).

Rockefeller Foundn. Fellow:

Duthie, E. S., M.B., M.Sc.

*Radiology*

Hardman, T. G., M.D. Lectr.

*Surgery*  
.....

Pearson, W., M.D.      Regius Prof.  
Gill, F., M.D.      Prof.  
                                 Asst.

*Surgery, Orthopædic*  
Haughton, W. S., M.D.      Hon. Prof.

**Dentistry**

Hogan, J. E., M.A., L.D.S.      (Dental Surg. and Pathol.)  
                                 Lectr.  
Friel, E. S., M.Dent.Sc., Sc.D.      (Orthodontics) Lectr.  
Cockburn, J., M.A., L.D.S. Eng.,  
                                 L.R.C.P. and S.I., D.P.H.,  
                                 F.R.C.P.I.      (Dental Mechanics) Lectr.  
Micks, R. H., M.A., M.D.      (Med. for Dental Students)  
                                 Lectr.

**Oriental Languages**

*Arabic, Persian, and Hindustani*  
Hart, Lt.-Col E. G., M.A.      Prof.

*Hebrew*  
Gwynn, R. M., M.A., B.D.      Erasmus Smith's Prof.  
Luce, A. A., M.A., D.D.      Lectr.  
Weingreen, J., B.A., Ph.D.      Asst.

*Sanskrit and Compar. Philol.*  
Borgstrom, C. J.      Lectr.

**Theology**

v. also Orient. Langs

*Biblical Greek*  
Gwynn, R. M., M.A., B.D.      Prof.

*Divinity* [Regius Prof.  
White, Rev. N. J. D., D.D.  
Oulton, J. E. L., M.A., B.D.  
                                 Abp. King's Prof.  
Dungan, W. W., M.A.      Wallace Lectr.

Bell, W., B.A. Belf., B.D. Lond.,  
                                 M.A.      (Bible) Lectr.  
Marett, R. R., D.Sc., LL.D.  
                                 (1933) Donnellan Lectr.

**Assts. :**

Luce, A. A., M.A., D.D.  
Green, D. C., M.A., B.D.  
Proctor, W. C. G., B.D.  
Young, E. J., B.D.  
Duggan, C. C. W., B.D.  
Jenkins, R. G. F., M.A.

*Ecclesiastical Hist.*  
Jourdan, Rev Canon G. B., D.D.

*Pastoral Theology*  
Harvey, Rev. T. A., M.A., B.D.  
                                 Prof.

**ASSOCIATED COLLEGES**

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.  
CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two-years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as "Sophister" (3rd year).

**GENERAL INFORMATION**

Trinity College was founded and incorporated by Royal Charter in 1592 as "Mater Universitatis," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation, subject to the consent of a majority of the Fellows and the approval of the Visitors. The general government of the

Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

**THE LIBRARY** of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in the United Kingdom. It contains over 390,000 printed books, amongst which there is in the Fagel Library a group of early pamphlets relating to the Dutch and English East and West India Companies. The MSS. are over 2000 in number, and include an important collection in Irish. A General Catalogue of the MSS. was published in 1900, and a Revised Catalogue of the Irish MSS. in 1921. A Catalogue of Printed Books in the library in 1872 was published in 1887 and distributed to the world. There is a Lending Library, which includes 6000 vols. bequeathed by the late W. E. H. Lecky; and smaller libraries in the Schools of Mod. Langs., Med., Maths., and Nat. Scs.

**MUSEUMS.** The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological are among the best collections in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

**LABORATORIES.** Anat., Anthropol., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

**HERBARIUM** (rich in plants of N. America, India, S. Africa, and Australia). **BOTANIC GARDENS**, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous **HOSPITALS**, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

**PROFESSIONAL SCHOOLS.** Divinity, Law, Physic, Engin., Indian and Home Civil Service, Agric., Forestry, Music, Edn., Comm. Registrars: *Law*—W. A. Goligher, Litt.D.; *Physic*—G. L. Allen, M.A.; *Engin.*—H. Thrift, M.A.; *Music*—W. F. Starkie, Litt.D.; *Civil Service*—E. H. Alton, Litt.D.; *Edn.*—R. J. Fynne, M.A.; *Agric.*—H. Thrift, M.A.; *Comm.*—H. W. Parke, M.A.

**ADMISSION.** See Appendix XXII.

**DEGREES.** Every student must take the B.A. before proceeding to any other degree, except those in music and B.Sc., M.Sc., Ph.D. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school or taking the B.Sc. course are required to attend Arts lectures in every term, unless specially exempted (e.g. those earning their living by teaching). If exempted

they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory—Algebra, Geom., Trig., Mech. or Experimental Sci., Logic, Engl. Essay, Latin, Greek or French or Italian or Spanish or Irish or German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour B.A.*—known as a *Moderatorship*—can be taken in 12 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Sc., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang., 12 Econ. and Pol. Sc.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 3, 4, 5, 6, 7, 10, three years in No. 9, and two years in Nos. 8 and 12. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.Sc. is obtained by a 4-year course consisting of 12 terms of lectures and 4 examns. In the first two years English, French, German, Mathematics, Physics, and Chemistry are compulsory. In the last two years the student studies 3 subjects chosen from Physics, Chem., Bot., Zool., Physiology, Anat.

A B.Sc. with hon. is obtained by passing an examn. identical with Moderatorships (see above) in Experimental or Nat. Science.

The B.D. is obtained by an examn. open to all grads. in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent.Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.); Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Univ. Coll. (N.U.I.); B.Comm., 3 yrs. The M.Sc. and Ph.D. (v. p. 14) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or a published work is required; for M.D. must have taken the M.B. degree and be of M.A. standing; for M.Ch. must be a B.Ch. of 3 yrs.' standing; for M.A.O., a B.A.O. of 2 yrs.' standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 1 yr.'s standing, and pass an examn.; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus. D. is granted after an exercise or practical test.

DIPLOMAS in Agric., Educn. (Primary and Higher), Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr.'s course), D.P.H., Religious Knowledge (women).

*License* in Engineering (first two years of Arts course and complete course in Engineering). *License* in Med., Surg., and Obst. Science.

*Certificate* in Engineering (complete course in Engineering, but without Arts course).

*Testimonium* in Divinity (3 yrs.' course).

RECOGNITION OF OTHER UNIVS., ETC. See Appendix XXII.

**FEES.** Entrance, £15; Composition for all Arts and Science Lectures, 20 gs. p.a. (to students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees); Med. course total (including Hospitals and Degree fees), about £150; Dental Sci. total, about £200; Engin., (3 yrs.) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others; Commerce, £47 (if Arts Course is taken), £80 (for extern. students).

Among **SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES** are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent in Berlin, Paris, or Vienna). A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M.A. standing.

**RESIDENCE.** The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms; dinner in Hall, 14s. a week. Trinity Hall (*Warden*, Eliz. M. Cunningham, M.A.) accommodates 40 women; board and residence, £23: 10s. to £28: 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

AN APPOINTMENTS BOARD was established in 1906.

**PUBLICATIONS.** *Calendar* (Oct.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc. *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591-1891, 2rs. (Hodges, Figgis & Co., Dublin). *Hermathena* (annual), original papers in Arts subjects. *T.C.D. (Students')*, 3d. weekly.

## THE YEAR 1931-32

**BENEFACTIONS.** £500 from the late Dr. Walter Smith, for a prize or prizes in the Medical School.

**NEW DEPARTMENTS.** Economics and Pol. Sci. established as a separate Department.

**DONNELLAN LECTURER.** R. R. Marett, D.Sc., LL.D.

**DEATH.** Dr. Louis Claude Purser, Senior Fellow (retired), died.

**HONORARY DEGREES.** *D.D.*—Prof. Alex. Souter. *LL.D.*—Prof. W. R. Scott. *Litt.D.*—Prof. E. K. Rand, Miss Edith Oenone Somerville, Mons. Joseph Vendryes. *Sc.D.*—Dr. Ross G. Harrison, Prof. T. M. Lowry. *M.A.I.*—Prof. F. S. Rishworth.

STUDENTS. Total number on the College Books under the Degree of M.A. June, 1932 : In Arts :—1354. In addition, 114 Med. Students and 9 Law Students not in Faculty of Arts. Total, 1477. Medicine, total, 390 ; Eng 57 ; Divinity, 70 ; Commerce, 28 ; Law, 68 ; Sec. Edn. Dipl. Students, 25.

OTHER DEGREES. D.D., 1 ; LL.D., 3 ; M.D., 14 ; Litt.D., 6 ; Ph.D., 2 ; B.D., 3 ; M.A., 53 ; M.Sc., 5 ; LL.B., 25 ; M.B., B.Ch., B.A.O., 42 ; B.A.I., 14 ; B.Dent.Sc., 1 ; B.Comm., 5 ; B.A., 248 ; B.Sc., 2 ; Mus.B., 2.

# THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H.M. THE KING.

CHANCELLOR—EAMON DE VALERA, T.D., B.A., LL.D., B.Sc., Ph.D.

VICE-CHANCELLOR—ALEXANDER ANDERSON, M.A. Camb., LL.D., D.Sc., President, University College, Galway.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., CORK AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REPRESENTATIVES IN THE DAIL—M. HAYES, M.A., T.D.; P. M'GILLIGAN, M.A., T.D.; CONNOR A. MAGUIRE, M.A., LL.B., T.D.

REGISTRAR—FREDERICK H. WIBER, LL.D., 49 Merrion Square, Dublin.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

## PROFESSORS AND LECTURERS

Prof. of Catholic Theology—Rev. J. J. Hannon, S.J.

Staffs of the Univ. Colleges, v. *infra*

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Rt. Rev. Monsignor MacCaffrey, LL.D.).  
*Classics*—Rev. J. F. D'Alton, M.A., D.D., D.Litt.; Rev. J. G. O'Neill, M.A.; Rev. J. Duff, M.A. *Eastern Langs*—Very Rev. P. J. Canon Boylan, M.A., D.Litt., D.D. *Education*—Rev. M. A. Brennan, M.A., H.Dip. in Ed. *English*—Rev. C. Mulcahy; Rev. P. MacSweeney, M.A. *French and German*—Rev. J. L. Rigal, M.A. *Irish*—Rev. G. O'Nolan, M.A., D.Litt. *Italian*—Rev. J. F. D'Alton, M.A., D.Litt., D.D. *Maths. and Math. Physics*—Rev. P. J. Browne, M.A., D.Sc. *Music*—Rev. M. Tracy, B.A., L.Mus. Rome. *Philos., Mental and Moral*—Rev. Cornelius Lucey, M.A., D.D.; Rev. P. Coffey, D.Ph.; Rev. J. O'Neill, D.Ph. *Physics, Expl.*—Rev. P. J. I. McLaughlin, M.Sc. *Welsh*—  
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## GENERAL INFORMATION

The National University of Ireland, with its Constituent Colls., Univ. Coll., Dublin, Univ. Coll., Cork, and Univ. Coll., Galway, was founded 1909. For early history, see *Year Book*, 1929.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce, (9) General Agriculture (Univ. Coll., Dublin, only), (10) Dairy Science (Univ. Coll., Cork, only). Music is included in Arts and Celtic Studies. Classes are held in all Faculties, except (9) and (10), at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.



ADMISSION. See Appendix XXII.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health; M.Econ.Sc.; D.Econ.Sc.; B.Sc. (Dairying); M.Sc. (Dairying); B.D.S., M.D.S.; B.E., B.Arch., M.E., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's Coll., Maynooth.

The M.A., M.Sc., M.Agr.Sc., D.Sc., B.Sc., Pub. Health, M.E., M.Arch., M.Comm., Ph.D., D.Litt. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 14.

*Diplomas* are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent or Recognized Colls. A Diploma in Library Training is available in Univ. Colls., Dublin and Galway.

FEES. Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas, £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs., one in Philosophy, 5 yrs.) standing; a scholarship of £150 in Psychological Medicine; bursary in Commerce and bursary in Engineering, £150, each tenable for 1 yr.; prize of £100 for Irish Historical Research.

PUBLICATION. *Calendar* (December), 2s., post free, 2s. 9d.

## THE YEAR 1931-32

HONORARY DEGREES. LL.D.—Columba T. Thompson. M.D.—Anna Dengel.

TRAVELLING STUDENTSHIPS. Six in the year 1931-32.

DEGREES, 1931-32. B.A., 257; M.A., 42; LL.B., 3; B.Sc., 58; M.Sc., 23; D.Sc., 1; M.B., B.Ch., B.A.O., 44; D.P.H., 13; M.D., 12; M.Ch., 2; M.A.O., 4; Ph.D., 2; B.Agr.Sc., 4; B.Comm., 85; D.Econ.Sc., 1; B.E., 26; H.Dip. in Ed., 217; Dip. in Ed., 5; Dip. in Libr. Training, 6; Dip. in Irish Studies, 6; Cert. in Comm., 1; B.Sc. (Dairying) 2; M.Sc. (Dairying), 2; Dip. in Psychological Med., 2; B.Sc. Public Health, 6; D.Litt., 1; B.Mus., 1.

# UNIVERSITY COLLEGE, DUBLIN

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—D. J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D.

REGISTRAR—Prof. A. W. CONWAY, M.A., D.Sc., F.R.S.

SECRETARY AND BURSAR—J. W. BACON, M.A.

LIBRARIAN—J. J. O'NEILL.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>	
O'Connor, D., F.C.A.	Lectr.
<i>Agriculture, v. infra</i>	
<i>Anatomy</i>	
McLoughlin, E. P., B.A., M.B., B.Ch., B.A.O.	Prof.
MacAuley, C. J., M.B., B.Ch., B.A.O., F.R.C.S. Eng.	Asst.
Keenan, E., M.D., B.Ch.	Asst.
<i>Archæology, Celtic</i> [Prof.]	
Macalister, R. A. S., M.A., D.Litt.	
<i>Architecture</i>	
Butler, R. M., F.R.I.B.A., F.R.I.A.I.	Prof.
Light, A. C., B.A. Lond., A.R.I.B.A.	Demr.
<i>Banking and Finance</i>	
Shields, B. F., M.A.	Actg. Lectr.
<i>Botany</i>	
Doyle, Joseph, B.A., D.Sc.	Prof.
La Touche, C. J. P., M.Sc.	Asst.
<i>Chemistry</i>	
Nolan, T. J., B.A., D.Sc.	Prof.
Algar, J., B.A., D.Sc.	Lectr.
Keane, J., M.Sc., Ph.D.	Lectr.
<i>Chemistry, Applied Organic</i>	
*O'Farrelly, A., M.A., F.I.C.	Prof.
<i>Chemistry, Phys. &amp; Metallurgical</i>	
*Leonard, A. G. G., B.Sc., Ph.D., F.R.C.S.I.	Lectr.
<i>Classics</i>	
Tierney, M., M.A. (Greek)	Prof.
Semple, P., M.A. (Latin)	Prof.
Gwynn, Rev. A., S.J., M.A., B.Litt. (Ancient History)	Lectr.
Farrell, E., B.A.	Asst.
<i>Commerce</i>	
Shields, B. F., M.A.	Prof.
<i>Dentistry, v. infra</i>	
<i>Economics, v. Pol. Econ.</i>	
<i>Education</i>	
Corcoran, Rev. T., D.Litt.	Prof.
Williams, W. J., M.A.	Lectr.
O'Kelly, Mary K., B.A.	Asst.
4 addnl. Assts.	
<i>Engineering, Civil</i>	
Purcell, P. F., M.A., M.A.I.	Prof.
Lewis, F. E., B.A., B.E.	Asst.
<i>Engineering, Elect., v Physics</i>	
<i>Engineering, Mechanical</i>	
*Taylor, J., M.A., A.R.C.S.I.	Prof.
**Warwick, F. W., B.A., B.E.	Acting Lectr.
**Cormack, P., F.R.C.S.I.	Demr.

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

<i>English Lang. and Philology</i>		<i>Italian and Spanish Lang. and Lit.</i>	
.....	Prof.	Degani, Maria A., Dipl Univ.	Prof.
MacSweeney, J. J., M.A.	Asst.	Padua	
<i>English Literature</i>		<i>Law, Constitutional, etc.</i>	
Donovan, R., B.A., D.Litt.	Prof.	Ryan, M. J., M.A., B.Sc., LL.B.,	Prof.
Hogan, J. J., M.A., B.Litt.	Asst.	K.C.	
M'Carvill, Mrs., M.A.	Asst.	<i>Law, Jurispr., and Internat and Roman</i>	
<i>French and Romance Philol.</i>		<i>Law of Property and of Contracts</i>	
Chauviré, R., D. ès L., D Litt.	Prof.	.....	Prof.
O'Kelly, Mary K., B.A.	Lectr.	<i>Mathematics</i>	
Harnett, Ellen, M.A.	Asst.	McWeeney, H. C., M.A.	Prof.
<i>Geology</i>		Egan, Rev. M. F., M.A.	Lectr.
Seymour, H. J., B.A., B.Sc.	Prof.	Keating, G., M.Sc.	Asst.
Corballis, J., B.Sc., A.R.C.S.I.	Asst.	<i>Mathematics, Pure and Applied</i>	
<i>German</i>		*Orr, W. McF., M.A., D.Sc.,	Prof.
Macken, Mary, M.A.	Prof.	F.R.S.	
Bowler, Margt, M.A.	Asst.	<i>Medicine and Surgery, v. infra</i>	
<i>Hebrew and Aramaic</i>		<i>Music</i>	
Boylan, Very Rev. P. J. C., M.A.,	Prof.	Larchet, J. F., Mus.D.	Prof.
D.Litt., D.D.		<i>Music, Irish</i>	
<i>History</i>		O'Dwyer, R.	Prof.
O'Sullivan, J. M., M.A., Ph.D.	Prof.	<i>Philology, Comp. and Sanskrit</i>	
Donovan, P. F., M.A.	Asst.	Dillon, M., M.A., Ph.D.	Lectr.
<i>History, Early, including Mediæval Irish</i>		<i>Philosophy</i>	
MacNeill, J., B.A., D.Litt.	Prof.	Prof. :	
<i>History, Modern Irish</i>		O'Keefe, Rev. D., M.A. (Ethics and Politics).	
Hayden, Mary T., M.A.	Prof.	Shine, Rev. J., M.A. (Logic and Psychol.).	
<i>Irish, Early and Mediæval</i>		Magennis, W., M.A. (Metaphysics).	
Bergin, O., D.Litt. Wales, B.A.,	Prof.	Horgan, Rev. J., M.A.	Asst.
Ph.D.		<i>Physics and Electrical Engineering</i>	
<i>Irish Lang. and Lit., Modern</i>		*Hackett, F. E. W., M.A., M.Sc.,	Prof.
Cormac O'K., M.A.	Prof.	Ph.D.	
Hayes, M., M.A.	Lectr.	*Allen, R. G., B.Sc., A.R.C.S.I.	
Delargy, J. H., M.A.	Asst.	(Electro-Technol.)	Lectr.
Dillon, M., M.A., Ph.D.	Asst.	**O'Callaghan, P., A.R.C.S.I.	Demr.
MacEntee, Mrs.	Asst.		
Murphy, H. G. A., M.A.	Asst.		
<i>Irish Poetry, Modern</i>			
O'Farrelly, Agnes, M.A.	Prof.		

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

*Physics, Experimental*

Nolan, J. J., M.A., D.Sc. Prof.

Dowling, J. J., M.A., F.Inst P. Lectr.

Nolan, P. J., D.Sc., Ph.D. Lectr.

*Physics, Mathematical* [Prof.

Conway, A. W., M.A., D.Sc., F.R.S.

Keating, G., M.Sc. Asst.

*Physiology and Histology*

O'Connor, J. M., B.A., M.D. Prof.

Dillon, T. W. T., M.B., B.Ch. Asst.

*Polit. Econ. and Nat. Econ.*

O'Brien, G., B.A., D.Litt., B.L. Prof.

Prendeville, P. L., B.A., M.Comm. Asst.

*Welsh*

Jones, J. Ll., M.A., B.Litt. Prof.

*Zoology*

Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.

Humphries, Annie, M.Sc. Asst.

*Agriculture*

Drew, J. P., M.Sc., A.R.C.S.I. Prof.

*Agricultural Botany and Bacteriology*

\*Gorman, M. J., A.R.C.S.I. Lectr.

*Agricultural Chemistry*

..... Lectr.

*Animal Nutrition* [Lectr.

Sheehy, E. J., B.Sc., F.R.C.S.I.

*Forestry*

..... Prof.

*Horticulture*

Sherrard, G. O., A.R.C.S.I. Lectr.

*Plant Breeding*

Caffrey, M., A.R.C.S.I. Lectr.

*Plant Pathology*

Murphy, P. A., B.A., D.Sc., A.R.C.S.I. Prof.

*Soil Physics*

Gallagher, P. H., D.Sc. Lectr.

7 Research Assts., 6 Assts.

and Demrs.

*Medicine**Mat. Med. and Therap.*

Dillon, T. W. T., M.B., B.Ch., B.A.O. Prof.

*Med. Jurispr.*

McGrath, J., M.Sc., M.B., B.Ch., B.A.O. Lectr.

*Medicine*

Moore, H. F., M.D., D.Sc. Prof.

Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. (Systematic Medicine) Prof.

*Midwifery and Gynæc.*

Farnan, R. P., M.B., B.Ch. Prof.

O'Kelly, J. J., B.A., M.B., B.Ch., M.A.O. (Obstetrics) Lectr.

White, R., F.R.C.S.I. (Gynæc.) Lectr.

*Ophthalmology*

Werner, L., B.A., M.B., B.Ch., B.A.O., F.R.C.S.I. Prof.

*Pathology and Bacteriology* [Prof.

O'Farrell, T. T., F.R.C.S.I., D.P.H.

Crofton, W. M., B.A., M.D. (Special P.) Lectr.

*Pharmacol. and Bio-Chemistry*

Conway, E. J., D.Sc., M.B., B.Ch. Prof.

*Public Health and Bacteriology*

O'Kelly, W. D., M.D., D.P.H., D.Sc. (Pub. Health) Prof.

Keane, J. J., M.B., B.Ch., B.A.O., D.P.H., B.Sc. (Pub. Health) Asst.

*Surgery* [Prof.

Barniville, H. L., B.A., M.D., M.Ch.

Meade, H. S., F.R.C.S.I. (Systematic Surg.) Prof.

*Dentistry*

Sheridan, E., M.D.S., F.R.C.S.I. (D. Surg.) Prof.

Potter, J. I., L.D.S., M.D.S. (D. Mech.) Prof.

Flanagan, L., B.D.S., M.B., B.Ch., B.A.O. (Orthod.) Lectr.

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

## GENERAL INFORMATION

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green (History) Library and the Zimmer Celtic Library. MUSEUMS: Ancient History. LABORATORIES include those of the late R.U.I. and of the new buildings completed in 1919.

Under the University Education (Agriculture and Dairy Science) Act 1926 of the Irish Free State the functions of the Royal College of Science for Ireland have been transferred to Univ. Coll., Dublin. For the conditions of transfer, see *Yearbook*, 1929.

The LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, e.g. extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop; examples of types of engines aggregating 700 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elec. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat. Sc. equipment.

LIBRARY with 59,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses: Arts or Comm—£14:19s.; Science—£20 to £25; Engin.—£20 to £23; Law (in addition to Arts)—8 gs.; Med. (including Coll. Hospl.), whole period—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science: 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of Residence.

PUBLICATION. *Calendar*, Nov., 5s.

## THE YEAR 1931-32

NEW BUILDINGS. Anat. Dept. enlarged and newly equipped in the Earlsfort Terrace Buildings.

NEW POSTS. Professorship of Bio-chem. and Pharmacol.; Lectureships in Anc. and Mod. Irish Hist., Econ. and Commerce, Irish Folklore.

VISITS FROM OTHER UNIVS. Paris—Institut Catholique—Prof. le Père Peillaube; Univ. Berlin, Prof. Hoëtsch.

DEATH. A. E. Clery, Prof. of Property and Contracts.

STUDENTS. Full-time: total, 1774, including graduates, 315. Part-time: total, 139; certif. music, 26; Architecture, 15; Law, 59; Agric. (1 yr. course), 40; Library Dipl., 9 (5 included in graduates); occasional, 3.

Vacation Courses (Summer): post-grad. medical, 16.

DEGREES OBTAINED. B.A., 148; LL.B., 3; B.Sc., 39; B.Comm., 54; M.B., B.Ch., B.A.O., 24; B.E., 11; B.Agr.Sc., 4; M.A., 25; M.Sc., 16; M.Econ.Sc., 2; M.D., 6; M.Ch., 2; B.Sc.Pub.Health, 0; H.Dipl.Ed., 185; 13; Dipl. Mental Dis., 1; Libr. Dipl., 5.

# UNIVERSITY COLLEGE, CORK

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—P. J. MERRIMAN, M.A., LL.D.

REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.

SECRETARY AND BURSAR—J. DOWNEY, M.Comm.

LIBRARIAN—T. A. CONROY, M.A.

## PROFESSORS, LECTURERS, ETC.

### *Accounting and Business Administration*

- |  |  |
|--|--|
| Magennis, A. J., M.Econ.Sc.,<br>F.S.A.A. Prof. | O'Cinnéide, R., M.Sc. (in Irish)<br>Lectr.                   |
| MacCarthy, C. P., M.Comm.,<br>F.S.A.A. Lectr.  | Drumm, P. J., M.Sc., Ph.D. Asst.<br>1 Demr. (Chem., Applied) |
| 1 Demr.  | <i>Classics</i>  |
|  | Treston, H. J., M.A., D.Litt. Prof.                          |
|  | Porter, W. H., M.A. Dub. Lectr.                              |

### *Agriculture*

- |  |  |
|--|--|
| Boyle, C., M.A. Wisc., B.Sc.,<br>Ph.D. Lond., D.I.C. Prof. |  |
|--|--|

### *Anatomy*

- |   |  |
|---|--|
| Fitzgerald, D. P., B.A., M.B.,<br>B.Ch., B.A.O. Prof. |  |
| Kiely, P., B.Sc., M.Ch., M.D.,<br>F.R.C.S.Eng. Asst.  |  |

### *Archæology*

- |                                   |         |
|-----------------------------------|---------|
|                                   | [Prof.] |
| Power, Rev. P., D.Litt., M.R.I.A. |         |

### *Architecture*

- |                                    |          |
|------------------------------------|----------|
|                                    | [Lectr.] |
| Hill, H. H., B.A. Liv., A.R.I.B.A. |          |

### *Botany*

- |  |  |
|--|--|
| Sperrin-Johnson, J. C., M.A.,<br>M.Sc., M.B. Prof. |  |
| 1 Demr.  |  |

### *Chemistry*

- |  |  |
|--|--|
| Reilly, J., M.A. Camb., D.Sc.<br>Geneva and Dub., H.Dip.Ed.,<br>F.R.C.S.I., F.I.C., F.I.P. Prof. |  |
| Taylor, John, D.Sc. Lectr.   |  |

### *Dairy Science*

- |  |  |
|--|--|
| Grimes, M., B.Sc. Tor., M.Sc.,<br>Ph.D. Iowa Lectr. (D. Bact.).      |  |
| Lyons, J., A.R.C.S.I., N.D.A.,<br>N.D.D. Lectr. (D. Tech.).          |  |
| McGrath, F. A., B.E.<br>Lectr. (D. Eng.).                            |  |
| Pyne, G. T., B.Sc. Lond., M.Sc.,<br>Ph D., F.I.C. Lectr. (D. Chem.). |  |

- |  |  |
|--|--|
| Murphy, M., M.A., B.Comm.<br>Lectr. (D. Accountancy<br>and Econ.). |  |
|--|--|

3 Demrs.

### *Dentistry, v. infra*

### *Economics and Commerce* [Prof.]

- |  |  |
|--|--|
| Busteed, J., M.Comm., F.S.S.                   |  |
| Larkin, Rev. W. P., M.A., Ph.D.<br>Lond. Asst. |  |

### *Education*

- |  |  |
|--|--|
| O'Sullivan, Eliz. M., M.A. Prof.                 |  |
| Conlon, J., M.A., H.Dip.Ed. (in<br>Irish) Lectr. |  |
| McSweeney, E. P., M.A. (Hist. of<br>Ed.) Lectr.  |  |

*Engineering, Civil*

Walsh, H. N., M.E., D.I.C. Prof.  
Coffey, Patrick, M.E. Lectr.

*Engineering, Municipal*

Farrington, S. W., B.A., B.E.  
Lectr.

*English*

Corkery, D., M.A. Prof.

*French*

Pauly, Marie Hélène Asste.

*Gaelic Languages*

O'Rahilly, T. F., M.A., D.Litt.  
Research Prof.

*Geology and Geography*

Swain, I., B.A., A.R.C.S.I. Prof.  
Leahy, D. J., M.A. (Geog. in Irish) Lectr.

*German*

Boyle, Mrs. Mary, M.A. Prof.

*History*

Hogan, J., B.A. Prof.  
Leahy, D. J., M.A. (in Irish) Lectr.

Henley, Pauline, M.A. Asst.

*Irish Lang. and Lit.*

O'Donoghue, T., D.Litt. Prof.  
O'Donoghue, E., M.A. (Mod. Irish) Lectr.

*Irish Music*

[Lectr.  
Patterson, Annie, B.A., Mus.Doc.

*Law*

Daly, G. J., B.L.  
Prof. (C. Law, Real Prop. and Eq.).

Murphy, C. K., M.A., LL.B.,  
H.Dip.Ed. (Jur., R. Law and Pers. Prop.). Prof.

*Mathematics*

Conran, M. J., M.A., D.Sc. Prof.  
McCarthy, M. D., B.A. (in Irish) Lectr.

*Mathematical Physics*

[Prof.  
O'Rahilly, A., M.A., B.Sc., Ph.D.

*Medicine and Surgery, v. infra**Music*

Lacy, F. St. J., F.R.A.M. Prof.

*Philosophy*

Fitzgibbon, Rev. T. E., B.A., Ph.D.  
Louvain Prof.  
Callaghan, Rev. John, M.A. Asst.

*Physics*

McHenry, John J., M.A., D.Sc.  
Prof.  
Belas, P. E., B.A., M.Sc., A.R.C.S.I.  
Lectr.

1 Demr.

*Physiology*

Barry, D. T., M.D., D.Sc., D.P.H.,  
F.R.C.S. Prof.  
1 Demr.

*Romance Languages, v. also French*

Ryan, Mary, M.A. Prof.

*Spanish*

Cooke, W. C., M.A. Lectr.

*Zoology*

Renouf, Louis P. W., B.A. Camb.,  
Dip. Agric. Camb. Prof.  
1 Demr.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Hygiene and Public Health*

Saunders, J. C., M.B., B.Ch.,  
B.A.O., D.P.H. Prof.  
..... (and Tuberculosis) Lectr.

*Materia Med.*

Donovan, T., M.A., M.B. Lectr.

*Medical Jurisprudence*

O'Donovan, J. M., M.Sc., M.D.,  
F.R.C.P.I. Lectr.

*Medicine*

..... Prof.

*Mental Diseases*

..... Lectr.

*Obstetrics and Gynaecology*

Kearney, J. J., M.D., D.P.H.,  
F.R.C.S.Ed. Prof.

*Ophth. and Otology*

O'Hea-Cussen, V., M.B., B.Ch.,  
B.A.O., D.O. Ox. Lectr.

<i>Pathology</i>	[Prof.	<i>Therapeutics</i>
Moore, A. E., M.B., B.Ch., B.A.O.		Cantillon, E. V., M.B., B.Ch.,
O'Donovan, Mrs Mary, M.B.,		B.A.O. Lectr.
D.P.H. (Chn. Path) Asst.		
<i>Surgery</i>		<i>Dentistry</i>
Dundon, J., M.B., B.Ch., B.A.O.,		Hackett, J. R., M.B., L.D.S.
F.R.C.S., F.R.C.S.I. Prof.		Lectr. (D. Surg.).
Pearson, C. B., M.D., M.Ch.,		Lectr. (D. Mech.).
B.A.O. Asst.	. . . .	

## GENERAL INFORMATION

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908

**LIBRARY:** over 200,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Sharman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. **MUSEUMS:** Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

**LABORATORIES.** Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. **BOTANICAL GARDENS.** **OBSERVATORY** with 8" equatorial and 11" photo. telescopes, seismograph, and 4" siderostat.

Complete Courses provided for all degrees and diplomas of the Univ., except 2 yrs. in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of Lond. The Coll. Certificate in Dairying (2 yrs.' course) is necessary for all who wish to become creamery managers in Ireland.

Commerce students can do 6 mos' practical work in railway or accountants' offices, etc.

**FEES** for tuition, including College fee: Arts, £47; Science, £76; Engin., £78; Med., £200, including Hospl. fees; Dentistry, £218, including Hospl. fees; Music, £41.

**RESIDENCE.** Hostel for men and hostel for women (charitable trust, R.C. only); students are supervised by Officers of Residence.

**PUBLICATIONS.** *Calendar* (Easter), 6d.; *Sessional Lists* (June), 6d.

## THE YEAR 1931-32

**EXTRA-MURAL WORK.** Weekly Lectures to Workmen.

**DEATH.** Prof. P. T. O'Sullivan (Medicine).

**STUDENTS.** Full-time: total, 677, including 72 graduates. Part-time: total, 2.

**DEGREES OBTAINED.** B.A., 29; B.Sc., 13; B.Sc. (Pub. Health), 2; M.A., 12; M.Sc., 7; B.Sc. (Dairying), 2; M.Sc. (Dairying), 2; B.Comm., 10; B.E., 10; B.Mus., 1; M.B., 18; M.D., 3; M.Ch., 1; M.A.O., 2; Ph.D., 2; D.Econ.Sc., 1; D.Sc., 1.



# UNIVERSITY COLLEGE, GALWAY

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—ALEXANDER ANDERSON, M.A. Camb., LL.D., D.Sc.

REGISTRAR AND SECRETARY—Rev. Prof. J. HYNES, M.A., B.D.

LIBRARIAN—Prof. J. HOWLEY, M.A., D.Litt.

BURSAR—Prof. T. WALSH, M.A., M.D.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy</i>		<i>German</i>	
Shea, S., M.B., B.Ch., B.A.O.	Prof.	Shea, Mrs. M. M., M.A.	Prof.
i Demr.			
<i>Archæology, Celtic</i>		<i>History</i>	
Hynes, Rev. J., M.A., B.D.	Prof.	O'Sullivan, Mrs. M. J. D., M.A.	Prof.
<i>Chemistry</i>		Kennedy, Miss S. G., M.A.,	
Dillon, T., M.A., D.Sc.	Prof.	H Dip Ed. Lectr. (in Irish).	
Clarke, Miss R., B.A., D.Sc.	Asst.	<i>Irish Lang., Philol., and Lit.</i>	
Barry, V., M.Sc.	Asst.	O'Maille, T., M.A. Manc., Ph.D.	
<i>Classics, Ancient</i>		Frei., D.Litt.	Prof.
Fahy, Rev. T., M.A., B.D.	Prof.	<i>Irish, Modern</i>	
Lectrs.:		O'Raghallaigh, T., M.A., H Dip.	
Heavey, Margaret M., M.A.,		Ed., Ph D.	Lectr.
H Dip Ed.		<i>Law and Jurisprudence</i>	
Thomson, G., M.A.		Arkins, P. A., B.A., LL.B.	Prof.
<i>Economics, Commerce, &amp; Acctcy.</i>		<i>Mathematics</i>	
McBryan, F., M.A., H.Dip.Ed.	Prof.	Power, M., M.A., B.Sc.	Prof.
Buckley, L., B.Comm., H.Dip Ed.		M'Kenna, E., M.A.,	M.Sc.,
Lectr. (in Irish)		A.R.C.S.I.	Lectr.
<i>Education</i>		Ryan, E. R., B.Sc., B.E.	Asst.
Larkin, P., B.A., H.Dip.Ed.	Prof.	<i>Medicine, v. infra</i>	
MacFhinn, Rev. P. E., M.A.,		<i>Natural History</i>	
H.Dip.Ed., D.D.	Lectr.	Dinan, T. J., M.Sc.	Prof.
MacCabe, Rev. Br. L., B.A.,		Higgins, M. J., M.Sc.	Asst.
H.Dip Ed.	Asst.	<i>Philosophy</i>	
<i>Engineering, Civil</i>		Howley, J. F. W., M.A., D.Litt.	[Prof.]
Rishworth, F. S., B.E., B.A.	Prof.	<i>Physics</i>	
O'Connor, H. G., M.E.	Asst.	The President	Prof.
<i>Engineering, Electrical</i>		Twomey, T. F., M.Sc.	Asst.
Ryan, E. R., B.Sc., B.E.	Asst.	<i>Physiology</i>	
<i>English Language and Lit.</i>		Donegan, J. F., B.Sc., M.B., B.Ch.,	
Byrne, W. A., M.A.	Prof.	B.A.O.	Prof.
<i>Geology and Geography</i>		<i>Romance Languages</i>	
Mitchell, J., B.Sc., B.E., F.G.S.		O'Brien, W., M.A.	Prof.
Buckley, L., B.Comm. (Geog. in			
Irish)	Asst.		

**Medicine**

*Med. Jurisprudence and Hygiene*  
Walsh, T., M.A., B.Sc., M.D.,  
D.P.H., H.Dip.Ed. Lectr.

**Medicine**

Fallon, W. M., B.Sc., M.D.,  
D.P.H. Prof.

**Mental Diseases**

English, Adeline, M.B., B.Ch.,  
B.A.O. Lectr.

*Midwifery and Gynaecology* [Prof.  
Morris, D. V., M.B., B.Ch., B.A.O.]

**Ophthalmology and Otology**

O'Malley, C. C., B.Sc., M.B. Prof.

**Pathology**

Walsh, T. (v. Med. Jur.) Prof.

**Surgery**

O'Malley, M. G., M.B., B.Ch.,  
B.A.O., F.R.C.S. Prof.

**Therapeutics, Mat. Med. and Pharmacol.**

M'Dermott, E. N., B.Sc., M.D.,  
B.Ch., B.A.O. Prof.

**GENERAL INFORMATION**

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY: 50,000 vols. LABORATORIES: Physics, Chem., Biol., Physiol., Path., Geol., Engin. MUSEUMS: Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce, and Public Health.

Med. degree students are required to spend 1 yr. at a Metropolitan Hospl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

FEES. College, £2 (women, £1). Degree courses (approximately): Arts, £26; Science, £30 to £45; Law, £12; Medicine (including 2 years' General Hospital fees), £78; Engineering, £46; Commerce, £26. Post-graduate or research course, £4.

SCHOLARSHIPS open to students of the Coll. on graduation: 4 of £40.

RESIDENCE. The cost of board and lodging for a student varies from 25s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

There is an APPOINTMENTS BOARD consisting of the President, the Deans of the Faculties and the Registrar.

PUBLICATIONS. List of licensed lodging-houses, free; *College Calendar* (1s. 4d.); Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.); Gaeltacht Scholarships (1½d.); Univ. Examn. Papers (post free, 1s. 8d.), from O'Gorman and Co., Galway.

**THE YEAR 1931-32**

NEW BUILDINGS. A new building, on the east side of the College grounds, with 6 large lecture rooms for the Fac. of Arts completed, cost £8000.

RETIREMENTS. Prof. R. B. Mahon (Medicine), Dr. J. J. M'Henry (Exp. Physics).

DEATH. Prof. W. G. Griffith (Elec. Engineering).

STUDENTS. Full-time: total, 560, including 45 graduates. Part-time: total, 49.

DEGREES OBTAINED. B.A., 26; B.Sc., 4; B.Agr.Sc., 1; M.A., 2; D.Sc., 1; M.B., B.Ch., B.A.O., 7; M.D., 1; B.E., 6; B.Comm., 22; Dip.Ed., 42; H.Dip.Ed., 24; Dip. Irish Studies, 7; D.P.H., 4; M.Ch., 1.

# CANADIAN UNIVERSITIES

IN *Nova Scotia*: ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. IN *New Brunswick*: NEW BRUNSWICK, MOUNT ALLISON. IN *Quebec*: BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. IN *Ontario*: MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univ.*: MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

## GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, late President of Dalhousie Univ. An account by President Walter C. Murray, of the Univ. of Saskatchewan, of "University Development in Canada," is to be found in the *Trans. Roy. Soc. Can.*, Third Series, 1922, vol. xvi. See also his article on "State Support and Control of Universities in Canada," in *Trans. R.S.C.*, Sect. II., p. 19, 1925. See also "American Influence on the Higher Education of Canada," *Trans. R.S.C.*, Sect. II., 1930, by Sir Robert A. Falconer, President of the Univ. of Toronto, and by the same author, "Higher Education in Canada," in the *Book of Canada*, published by the Canadian Medical Association, Toronto, 1930, pp. 139-151.]

THE word "university" is used very loosely in Canada, and in the following sketch a number of institutions which are in reality Colleges will be referred to. In this book twenty-one are listed, twenty-three in the *Canada Year Book*. It is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into (1) those which are supported and controlled by a religious group: Laval, Montreal, Ottawa, St. Francis Xavier, St. Joseph's, by the Roman Catholics; King's, Bishop's, Trinity, by the Church of England; Mount Allison, Victoria, by the United Church of Canada (a union of former Congregationalists, Methodists, and part of the Presbyterians); Acadia, McMaster, by the Baptists; (2) those that receive state support and are subject more or less to state control: New Brunswick, Toronto, Manitoba, Saskatchewan, Alberta, British Columbia; and (3) those that are independent of Church and State and depend upon private benefactions: Dalhousie, McGill, Queen's, Western Ontario. In order to understand, however, the great diversity among the various universities, even among those in any one group, some reference to the history of the rise and growth of university education in Canada must be made.

All the older colleges, with the exception of Dalhousie and McGill, were established by the Churches, to meet the obvious need for native ministers and teachers in a new and far-flung country. The next step was an appeal to the State, often to both the Local Government and the

Home Government, for a grant-in-aid, which was usually made. As in practically all political divisions, except Quebec, there were other strong religious bodies besides the one to receive this grant, there was before long in the nature of things resentment by these other bodies, and religious and political strife was engendered. In many cases the College Question was inextricably mixed up with the struggle of the people for Responsible Government, for democratic rule instead of oligarchical Councils. The changes in the Universities run parallel in the main with the political development of Canada.

**THE FRENCH COLLEGES.** The oldest University in Canada is Laval, in Quebec City, growing out of the founding of a Seminary there in 1663. It is modelled after the French universities, and is a group of professional and graduate schools, and has wide degree-granting powers. There was for many years a branch of Laval in Montreal, but in 1920 it became a separate entity under the name of the University of Montreal. It, like Laval, is intimately associated with the Church, in the firm belief that education cannot be dissociated from religion. Both receive State aid, but are not under State control. The undergraduate work preliminary to these two universities is done by twenty-four Classical Colleges scattered through the Province of Quebec. These give the Bachelor degree. These institutions have altered little in their general character with the changes in the political life of the Dominion. Ottawa combines the University and the Classical College. Closely akin to the Classical Colleges of Quebec, but not necessarily associated with Laval and Montreal, is a group of Maritime colleges: St. Joseph's and St. Thomas' in New Brunswick, St. Mary's and St. Anne's in Nova Scotia, and St. Dunstan's in Prince Edward Island. St. Francis Xavier and Mt. St. Vincent, Halifax, recently chartered, are the only Roman Catholic colleges not of the French type, being more like the non-catholic institutions.

**THE KING'S COLLEGES.** The next stage in the development of higher education in what is now Canada was due to the arrival of the Loyalists from the American colonies. These people belonged mainly to the established Church of England, and, though intensely loyal to the Mother Country and intolerant of republicanism, were yet imbued with advanced ideas of independence and democracy, and immediately made their presence felt. They wanted not only educational advantages for their children, but they wanted educational institutions which would be under the Church of England, believing that loyalty to Britain was almost a monopoly of those of that faith. There was thus introduced a political factor into the educational movement which had far-reaching consequences. The coming of the Loyalists led to the founding of what are called the King's Colleges. The first of them, and the only one which retains the name, was King's College, which was established at Windsor, Nova Scotia. In 1923 it removed to Halifax, and is intimately associated with Dalhousie. The nature of the association is that students in the Faculty of Arts and Science must register as students of the University, but may enrol as members of King's College, where they enjoy a corporate life similar to that of a college of Oxford. The students of the two institutions are a unit for instructional purposes

(except for certain subjects of the freshman year, where the King's students form a section by themselves), and the teaching staffs paid from the funds of each institution form a common Faculty. The University grants all degrees. The Faculty of Divinity of King's has no part in this association. The second King's College was established in 1800 as the College of New Brunswick, at Fredericton. On receiving a royal charter in 1828, it took the name of King's College (*v. infra*). The third, King's College, Toronto, received a similar charter in 1827. The precursor of these three colleges was undoubtedly King's College, New York, which, since the Revolution, has borne the name of Columbia University. All these Colleges were closely modelled after Oxford. The three Canadian King's Colleges practically all received grants, either in lands or money, or both, from the Imperial and Provincial Governments. In order to understand the cause of the educational struggles which took place in the first half of the nineteenth century it must be pointed out that their charters gave the control of these colleges to a Board composed mainly of officials of the Crown and adherents of the Church of England. The Church had accordingly a controlling voice in the College, and claimed exclusive privileges. The College was in reality a private institution receiving state aid, and those who were not members of the Church of England, and they were far in the majority, were thus taxed to support it and were cut off, in some cases entirely, from equal educational privileges. It is not difficult to see that this must inevitably have led to bitter controversy and strife. As the Governing Boards of the Colleges were largely identified with the oligarchical governing Councils of the Provinces, it is evident also that the educational and political causes would be inextricably mixed in the struggle of the many against the exclusive rule of the few.

**THE SCOTTISH COLLEGES.** The third stage was ushered in by the insistence of other religious denominations upon equal rights with the Church of England in the control of colleges already established, or upon being allowed to have colleges of their own with government grants as in the case of the King's Colleges. The lead was again taken in Nova Scotia. Dr. Thomas McCulloch, a Scot and a Presbyterian, had instituted at Pictou early in the nineteenth century Pictou Academy, which, though without degree-granting powers, acquired a high reputation for the scholarship of the men who were trained there (one was Dawson, the great Principal of McGill University). He was such a bonny fighter that, in spite of the bitter opposition of Governor and Council he received a provincial grant for Pictou Academy in 1819. Similar attacks on the existing state of affairs were made by Scotsmen in New Brunswick and Ontario. About this time Lord Dalhousie entered the arena, and, by the founding of Dalhousie College, broke for all time the ring of King's Colleges. He was another Scot, one who had experience as a General in the Napoleonic wars. During the war with the United States in 1812-14, the Province of Nova Scotia, of which he was then the Lieutenant-Governor, became possessed of a sum of about £11,000, which he used to found a college which was to be a direct protest against sectarianism and special privilege. By its Charter

it was to be "open to all occupations and sects of religion." It was also to be "on the same plan and principle as that of Edinburgh." Its founding in 1818 marks, therefore, one of the most important points in the development of Canadian higher education, the introduction of the Scottish type of university, where learning and scholarship were accented rather than the fine art of living, and where residential life was not looked upon as essential. Lord Dalhousie made one great mistake; he placed his infant college in the hands of some of the same officials as were the Board of King's College, and they kept its doors shut for twenty years. Their hands were forced, however, in 1838, and Thomas McCulloch became its first President. On his death, in 1843, the college was again closed, as the necessary financial support was not forthcoming, and it remained closed until 1863, when the spirit of union was taking hold of Canada in educational as well as political matters. The early history of McGill University is very similar to that of Dalhousie. It received its first charter, a Provincial one, in 1801, as the Royal Institution for the Advancement of Learning. As McGill College, it received a Royal Charter in 1821, subsequent to a bequest of land and the sum of £10,000 by James McGill, a Scottish resident of Montreal. It was also non-sectarian and modelled on Edinburgh, and for a number of years had a very precarious existence, and was not able to live up to the hopes of its founder. With the appointment of Dawson as its Principal in 1855 began its rapid and brilliant career. Queen's (*v. infra*) is the third of the Canadian universities of the Scottish type.

**THE SECTARIAN COLLEGES.** There followed in rapid succession the establishment of purely denominational colleges, and it is interesting to note that it was during the period of most intense political strife. Baptists founded Acadia, at Wolfville, N.S., in 1838; Methodists, Mount Allison, at Sackville, N.B., in 1858; Scottish Roman Catholics, St. Francis Xavier, at Antigonish, N.S., in 1855; French Roman Catholics, St. Joseph's, at Memramcook, N.B., in 1864; not to mention others which have since lost their identity. All these are in the Maritime Provinces. In Ontario were founded Victoria, at Cobourg, by Methodists, in 1841; Queen's, at Kingston, by Kirk Presbyterians, in 1842; Knox, at Toronto, by Free Presbyterians (now purely a Divinity School), in 1843; McMaster, at Toronto, by Baptists, in 1857; Trinity, at Toronto, by Anglicans, in 1851; and Ottawa, by Roman Catholics, in 1849. In Quebec we find Bishop's College, founded in 1843, by the Anglicans. These denominational colleges demanded, and in most cases received, a share of State aid. In time the obvious wastefulness of this use of State money led to its discontinuance, and also led to efforts to find a better basis for higher education.

**THE ATTEMPTS FOR UNION.** From 1841, when the union of Upper and Lower Canada took place, to 1867, when the Dominion of Canada was formed, the spirit of union was abroad, and following this period we see a uniting of various subdivisions of Presbyterians and again of Methodists. Efforts to unite groups of colleges are much in evidence during this period. Efforts to unite Dalhousie and King's in Nova Scotia, which had begun in 1823, and which had been renewed many

times, always failed (but *v. supra*). The co-operation of Presbyterians and Congregationalists who closed their own small Arts Colleges, enabled Dalhousie to reopen its doors in 1863. Several attempts to bring about a federation of the colleges in Ontario begun in 1843 failed until 1887.

**THE LONDON UNIVERSITY TYPE.** One of the many schemes of union proposed was the foundation of universities on the model of the University of London, with only examining and degree-conferring powers, which powers the constituent colleges were to hold in abeyance. An effort to initiate such a university in Toronto, in 1853, failed. So did the proposed founding of the University of Halifax, in 1876, fail. A similar effort in Winnipeg succeeded. The University of Manitoba, thus established, passed from being a "paper" university to the giving of instruction, first in Science, then in some departments of Arts also, then to the possession of professional schools, and finally to the full status of a State University.

**THE TORONTO FEDERATION.** A brief sketch of the history of the University of Toronto may serve to bring out the various stages through which the Canadian problem of higher education passed, and show the interesting form of federation which has proved so successful there. As stated above, King's College, Toronto, was given a Charter in 1827. It received a grant of land and was purely sectarian, Church of England. In 1837 its Charter was amended by modifying in some degree this Church control. Then followed the foundation of Victoria, Queen's and Knox (*v. supra*). King's was opened in 1843. Protests from other denominations brought about its secularization in 1849, its name being changed at the same time to the University of Toronto, and its control vested in the State. The Faculty of Divinity was abolished, and all denominational colleges were to be admitted to affiliation only as Divinity Schools. This refusal to recognize religion in education led to the founding of still more colleges (Trinity by the Anglicans, in 1851, St. Michael's by the Roman Catholics, in 1852, and McMaster by the Baptists, in 1857, all in Toronto),<sup>1</sup> and to the continued opposition of Queen's and Victoria. In 1851 another change was made, using the University of London as a model. All teaching work was withdrawn from the University, this being relegated to affiliated colleges. For this purpose a new body was formed, University College, and the Faculty of Arts transferred to it, and the Faculties of Law and Medicine discontinued. The University was to manage the finances, conduct examinations and confer degrees. The teaching was to be done by Federated Colleges, of which University College was to be the first. It was to be undenominational. The denominational colleges did not enter into the scheme, and it failed to bring about the federation which was hoped for. Various causes led to the federation of 1887. In the first place, the Government withdrew in 1868 its grants to the denominational colleges. In the second place, the growth of science and the introduction of the conception of research and post-graduate work into the universities increased enormously the cost of maintaining educational institutions. The

<sup>1</sup> McMaster removed to Hamilton, July, 1930.

University of Toronto (and University College) felt the pinch equally with the denominational colleges, for its only source of revenue was from the Crown lands with which King's had been originally endowed. It accordingly applied to the Legislature for a grant from the Provincial treasury. Naturally the competing denominational colleges strenuously objected to this. But the spirit of union in Canada, which showed itself in the political union of 1867, was called upon, and not in vain, for in 1887 a scheme of Federation was accomplished. The essence of the scheme is a group of Arts or Divinity colleges gathered about a central university, supported and controlled by the State, the University conducting examinations, conferring degrees (except in Divinity), and giving the instruction in those branches of learning which are costly to conduct, or are taken by only a few students, or are professional in character. The division of subjects between the Constituent Colleges and the University was set forth in the Act of 1887, but provision was made for change as future needs should dictate. Provision was also made for the affiliation of purely Divinity Schools like Knox and Wycliffe. All these constituent Colleges and Divinity Schools were given representation on the governing bodies of the University. Victoria and St. Michael's and Trinity entered the Federation, the former moving from Cobourg to Toronto in order to do so; but Queen's and McMaster elected to remain independent. The University is operating to-day under the Act of 1906. The only change from the Act of 1887 which need be referred to in this sketch is that the University is no longer administered through a department of government, but by an independent Board of Governors appointed by the Lieutenant-Governor in Council. Moreover, academic appointments can be made only on the nomination of the President of the University. By these means the University was removed from the suspicion of political and sectarian interference, and a high character in its academic staff assured.

**THE WESTERN UNIVERSITIES.** It remains to deal in general with the State University, that is, the type of university supported and controlled by the State. The oldest of these is the University of New Brunswick, chartered as King's College, Fredericton, in 1828, under the control of the Church of England. It received its present name in 1859, when it was secularized and put under the direct control of the Department of Education of the Government of the Province, and, at the same time, given very modest financial support. The form of State University developed in Ontario has already been described. The four Western Universities are, however, those which have earned to its completion the State University Idea. This idea is that the State must provide and support university education for all its people, irrespective of the part which may be played by private interests, whether ecclesiastical or otherwise. The idea carries the corollary of state control. It is a natural extension of the idea of free schools, which were established in Nova Scotia in 1864, and in Ontario in 1871, and carries to its logical conclusion the doctrine of democratic government, that all its citizens must be educated. Closely associated with the idea of the State University is the conception that the University must return service to



the State. The governments expect to call for and to receive guidance and expert advice from the academic staff of the University, and look to them for the study and investigation of the natural resources of their Provinces. The Universities also carry the knowledge so acquired to every portion of the Province through a highly organized form of Extension service. This attitude is obviously not of British origin, but came to Canada from the United States. In the four Western Provinces, Manitoba, Saskatchewan, Alberta, and British Columbia, the respective governments have carried the idea to its logical conclusion by confining to the State University the power of conferring degrees. The constitutions of these four Universities are modelled so largely upon that of Toronto that it is unnecessary to refer to them in detail. Manitoba University is very like Toronto in that it has constituent Arts Colleges, as well as Affiliated Divinity and Junior Colleges; the same thing is taking place in the other three. Notwithstanding the youth of these Universities (Alberta opened in 1908, Saskatchewan in 1909, Manitoba in practically its present form in 1900, and British Columbia in 1915), they have all grown to be strong, vigorous institutions serving well their constituencies.

As the years have gone by, all these institutions, while maintaining their individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School Course superimposed on eight years in the Common Schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School Course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

**JUNIOR MATRICULATION.** Students can satisfy the Entrance requirements of the Univs. by the presentation of a satisfactory certificate of the results of examinations conducted either by Universities or by Provincial Departments of Education, provided such certificate shows a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Most of the Univs. require for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc.

the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science or Engineering; but the best schools of Applied Science require in addition to Junior Matriculation at least a year in Arts and Science.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. In general the course of study requires 7 years following on Junior Matriculation. In some of the Univs. 6 of these years must be taken in the Medical School. In others the first 2 years (which are largely Pure Science) may be taken in any recognized Arts College.

There has been a similar advance in the standard of preliminary education required of students seeking admission to the study of Law. In the chief schools at least 2 years of Arts is required. At all the Schools the Law course proper extends over 3 years.

The standard of preliminary education required of students entering upon the study of Dentistry is the equivalent of 2 years in Arts and Science, and is practically identical with that for Medicine.

**ARTS COURSE.** Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective, but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B.Sc degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the Bachelor degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

**LENGTH OF SESSION** The Canadian Univs. open about the end of September and close in May or early in June. The average length of the session is  $32\frac{1}{2}$  weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the  $32\frac{1}{2}$  weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

**CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES.** During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of \$3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all exams. and grants degrees. On the understanding that King's would raise the sum of \$400,000 for the erection of the necessary residential buildings, the Carnegie Trustees undertook to provide \$600,000 to be used as an endowment for the payment of an instructional staff for the combined students. The necessary sum was raised and the buildings erected. Mount Allison Univ. (United Church) has recently decided to remain at Sackville (N.B.). The original scheme of confederation having thus

failed, the Carnegie Corporation offer has lapsed. There is no degree-granting educational institution in the adjoining colony of Newfoundland, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have recently organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation made a grant-in-aid for a period of five years.

#### NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES

No meeting was held in 1931.

The Fifteenth Conference was held in the National Research Building and the University, Ottawa, on May 30-31, 1932. The subjects discussed were: Modern Language Teaching, Radio; Commerce Courses; High School Curriculum; Uniformity of Standards for the B.A. Degree; Provision in Britain for Canadian Graduate Students; Exchange of University Students in Canada.

President for 1930-32—President W. Sherwood Fox, Ph.D., Litt.D., F.R.C.S., Univ. of Western Ontario.

There will be no meeting in 1933.

President for 1932-34—President R. C. Wallace, M.A., Ph.D., D.Sc., LL.D., F.G.S., F.R.S.C.

The Reports of the Conferences can be obtained from the Secretary, Prof. W. A. Mackintosh, Queen's Univ., Kingston, Ont.

#### DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

#### NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX

This institution represents the principal effort of the province in education of University grade. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years are carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, and St. Mary's College. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last 2 of the 4 yrs.' course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the junr. and senr. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific

research. Tuition fees: \$75 p.a. for British citizens, \$150 for those of other origins. Twenty county scholarships of \$75 p.a. are available for Nova Scotians. The buildings and equipment represent a provincial investment of about \$600,000. [*Contributed by the Department of Educn., N.S.*]

#### MARINE BIOLOGICAL STATIONS, v. Appendix XXIV. B. I.

##### THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING

The object of the Foundation, which was established in 1906 with resources which now amount to 31 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (a) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (b) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (a) or (b). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents. The offices of the Foundation are at 522 Fifth Avenue, New York City.

The list of associated institutions includes ALBERTA, BRITISH COLUMBIA, DALHOUSIE, MCGILL, MANITOBA, QUEEN'S, SASKATCHEWAN, and TORONTO. Up to June 1932, 1934 allowances and pensions had been granted, including 106 in Canada and 5 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. Among these are bulletins on Medical Education in Europe, Education in the Maritime Provinces of Canada, Games and Sports in British Schools and Universities, and the Quality of the Educational Process in the United States and Europe.

##### NATIONAL COUNCIL OF EDUCATION

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial depts. of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Toronto in 1934. Executive Secretary, Power Building, Winnipeg.

##### CANADIAN STUDENTS IN THE UNIVERSITIES OF THE UNITED KINGDOM, v. Appendix XXV.

THE NATIONAL FEDERATION OF CANADIAN UNIVERSITY STUDENTS, inaugurated Dec. 1926. First Annual Conference held at Univ. of Toronto, Dec. 1927; 2nd at Queen's Univ., Kingston, Ont., Dec. 1928. The 2nd Imperial Conf. of Students was held at the Univ. of Montreal, Quebec, Sept. 1929. No meeting held in 1930, owing to lack of funds. Annual Conf. held at McMaster

Univ., Hamilton, Ont., Dec. 1931. The 1st tour of Canadian students to Europe took place in the summer of 1930. Exchange of students for 1 yr.'s study before graduation arranged with member Univs.

Secretary-Treasurer—Percy Davies, M P., Clyde, Alberta ; Commission I. (Student Problems)—R Lanthier, Maison des Etudiants, Demontigny St. East, Montreal ; Commn. II. (Travel)—A. Gordon Burns, Hart House, Univ. of Toronto.

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN. Travelling post-graduate scholarship, v. Appendix XXIII. 21.

SCIENTIFIC AND INDUSTRIAL RESEARCH, v. Appendix XXIV.

STATISTICAL TABLES relating to Canadian Universities and Colleges are published by the Dominion Bureau of Statistics, Ottawa, in its Annual Survey of Education in Canada, price 50 c.

# ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

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## PROFESSORS, LECTURERS, ETC.

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Perry, H. G., M.A. Harv., D.Sc.  
Roscoe, Muriel V., Ph.D.

Radcliffe Prof.  
Bayne, P. M., M.A. Tor. Prof.

*Chemistry*  
Hill, D. U., M.A., Ph.D. Yale Prof.  
Chester, W. S., M.A. Tor.

Assoc. Prof.  
De Long, W., M.Sc., Ph.D. Tor.  
Assoc. Prof.

*Classics*  
Thompson, W. H., M.A., Ph.D.  
Yale Barss Prof.  
Dawson, C. M., M.A. Camb.  
Asst. Prof.

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Balcom, A. B., B.Sc., M.A. Harv.,  
D.C.L. Wallace Prof.  
Mosher, J. I., M.A. Asst. Prof.

*Education*  
Robinson, E. W., M.A. Prof.  
Abell, W. H., M.A. Swath.  
Prof. of Art.

*Engineering* [I. Curry Prof.  
Wheelock, F. E., M.A., Ph.D. Yale  
Sutherland, A., B.Sc. Prof.  
Steeves, R. T., M.A. Asst. Prof.

*English Lang. and Lit.*  
Rhodenizer, V. B., M.A., Ph.D.  
Harv. Prof.

Thomas, F. S., M.A. Tor., Ph.D.  
J Hopk Assoc. Prof.  
Sipprell, H. F., M.A. Harv. Instr.  
.....

Asst. Prof. in Public Speaking.

*Geology*  
Bancroft, M. F., M.A. Yale Prof.

*German*  
Ross, Roy, M.A. Yale Prof.

*History* [Prof.  
Dadson, T., M.A., Ph.D. Chicago  
Longley, R. S., M.A. Harvard  
Assoc. Prof.

Milner, W., LL.D.  
(Canadian Hist.) Spl. Lectr.

*Household Economics*  
McNally, Frances, B.S., M.A.  
Dean of School of H.E.  
O'Brien, Clarabelle, B.Sc. Instr.  
Cavenagh, Christine, B.Sc. Instr.  
Glendinning, Olive M., B.Sc.

(Institution Management) Instr.

*Library Science* [Instr.  
Ingraham, Mary Kinley, M.A.

*Mathematics* [White Prof.  
Jeffery, R. L., Ph.D. Cornell  
Evans, Ed., M.A. Chicago  
Assoc. Prof.

*New Test. Lang. and Lit.* [Prof.  
De Wolfe, H. T., B.A., D.D., LL.D.

*Old Test. Lang. and Lit*  
Chute, A. C., D.D. Emer. Prof.  
Hutchins, W. N., M.A., Ph.D.  
Chic., D.D.

G P. Payzant Prof.

*Osteology and Physiology*  
De Witt, C. E. A., B.A., M.D.  
McGill Instr.

*Physical Training* [Director.  
Osborne, W. T., M.A. Corn.  
Kelley, F. C. Instr.

*Physics* [I. Curry Prof.  
Wheelock, F. E., Ph.D. Yale  
Harkness, H. W., Ph.D. McG.

Assoc. Prof.

Fisher, R. M., M.A. Clark  
Assoc. Prof.

*Psychology* [Prof.  
Cook, T. W., M.A., Ph.D. Yale

*Romance Languages*  
Massey, E. R., M.A. (Brown) Prof.  
Hilborn, H. W., M.A. Tor.  
Assoc. Prof.

*Theology and Philosophy*  
Spidle, S., B.D., Ph.D. Clark  
Prof.

MacDonald, J. H., C.B.E., D.D.  
Prof. of Church Hist. and  
Bible Lit.

#### Department of Music

Collins, E. A., Mus.B. Camb.,  
F.R.C.O., Dean of School of  
Music, Piano, Organ, Theory.  
Newnham, F. L., L.R.A.M.,  
A.R.C.M., Instrn., Organ and  
Voice.

Morse, Marjory E., M.Mus. Piano.  
MacDonald, Ruth B., Voicé.  
Brown, Jean C, Mus.B., Piano  
Fraser, Lillian J., Violin.

## GENERAL INFORMATION

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University and the name changed to Acadia University by an Act of Legislature in 1891. In 1896 an endowment of \$100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

**LIBRARY:** 60,000 vols. **MUSEUMS:** Biol., Ethnol., Geol., Hist. **LABORATORIES:** Biol., Chem., Geol., Physics, Engineering. **OBSERVATORY:** Meteor. and Astron.

**DEPARTMENTS.** Arts and Sciences, Theology, Applied Science, Household Economics, Music.

**DEGREE COURSES.** 4 yrs.—B.A., B.A. (Theol.), B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A.; 2 yrs.—B.D. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech. Coll. Some of the B.A. and B.Sc. courses enable graduates to enter the 2nd yr. of the Dalhousie Law School, Halifax, and the Med. Dept. of McGill Univ., respectively.

**FEES** for tuition: in Arts and Sc. or Theol., \$130 (board provided at \$7 to \$7.50 per week, including room); in Appl. Sc. (3 yrs.), \$165. Lab. fees extra, about \$30. Other fees bring total cost to \$460 per year.

**RESIDENCE.** College hostels provide accommodation for 70 men and 228 women; University Dining Hall capacity, 600.

**PUBLICATIONS.** *Bulletin*, 25 cents p.a.; *Calendar* (July); *Students' Year Book* (May); *Athenæum* (monthly, Oct. to May).



## THE YEAR 1931-32

BENEFACTIONS. \$27,681.86.

DEVELOPMENTS. Establishment of Honours System, whereby Honours go to students making distinction in one department rather than for general excellence.

EXTRA-MURAL WORK. About 60 persons have taken extra-mural courses in the work of the first two years.

HONORARY DEGREES. *D.D.*—Albert MacKenzie Boggs, New York, U.S.A.; William Norman Hutchins, Wolfville, N.S., Canada; Thomas Sherrard Roy, Worcester, Mass., U.S.A. *D.Sc.*—Laurie Davidson Cox, Syracuse, N.Y. *D.C.L.*—Sir Robert Laird Borden, Ottawa; Merritt Lyndon Fernald, N.Y.; Willard Samuel Richardson, N.Y.

STUDENTS. Full-time: total, 520, including 14 graduates. Part-time: total, 117.

DEGREES. B.A., 60; B.Sc., 12; M.A., 6; B.Sc. (H. Econ.), 16; B.A. (Th.), 2; M.A. (Th.), 5; B.D., 1; Engineering Certif., 6; Dipl. (H. Econ.), 7; Licentiates of Music, 3; Junior Arts Certif., 7.

# UNIVERSITY OF ALBERTA, EDMONTON

Telegraphic address—VERA (A.B.C. Code).

VISITOR—His Honour the LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—HON. A. C. RUTHERFORD, B.A., B.C.L., LL.D.

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Chief Justice of Alberta.

PRESIDENT—ROBERT CHARLES WALLACE, M.A., Ph.D., D.Sc., LL.D.,  
F.G.S., F.R.S.C.

REGISTRAR—A. E. OTTEWELL, M.A.

ASSISTANT REGISTRAR—G. B. TAYLOR, M.Sc.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

## PROFESSORS, LECTURERS, ETC.

*Accounting*  
Winspear, F. G., C.A. Lectr.

*Agriculture, v. infra*

*Anatomy* [Prof.  
Revell, D. G., B.A., M.B. Tor.  
Shaner, R. F., Ph.D. Harv. Prof.  
Greene, E., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.  
Assoc. Prof.

Demonstrators :

Fife, J. K., M.D., C.M. McG.  
Huckell, R. G., M.D., C.M. McG.  
Whiteside, H. C., M.D.  
Labsinger, A. J., M.D. Manit.

*Architecture*  
Burgess, C. S., A.R.I.B.A.,  
F.R.A.I.C. Prof.

*Bacteriology, v. Med.*

*Bio-Chemistry*  
Hunter, G., M.A., B.Sc. (Agric.),  
D.Sc. Glas. Prof.  
McFarlane, W. D., B.S.A., M.A.  
Tor. Asst. Prof.  
Cantor, M. M., B.Sc., M.D. Man.  
Fellow.

*Botany*  
Lewis, F. J., D.Sc. Liv., F.R.S.E.  
and C., F.L.S. Prof.  
Moss, E. H., M.A., Ph.D. Tor.  
Asst. Prof.

Brown, A. B., B.Sc. Edin., M.Sc.  
McG. Lectr.

*Chemistry*

Shipley, J. W., M.A. Man., Ph.D.  
Harv., F.R.S.C. Prof.  
Walker, O. J., B.A. Sask., M.A.  
Harv., Ph.D. McG.  
Assoc. Prof.

Sandin, R. B., M.Sc., Ph.D. Chic.  
Assoc. Prof.  
Boomer, E. H., B.Sc., B. Col.,  
M.Sc., Ph.D. McG. Asst. Prof.  
Stover, N. M., M.Sc., Ph.D. (Ill.)  
Asst. Prof.

*Classics*

Alexander, W. H., M.A. Tor.,  
Ph.D. Calif. Prof.  
Misener, Geneva, M.A. Qu., Ph.D.  
Chic. Prof.  
Hardy, W. G., M.A. Tor., Ph.D.  
Chic. Assoc. Prof.  
Freebury, Ruth E., B.A. Asst.

*Dentistry, v. infra*

*Drawing and Descr. Geom.*  
Adam, J., M.A. Assoc. Prof.

*Economics, v. Pol. Econ.*

*Engineering, Civil & Municipal*  
Wilson, R. S. L., B.Sc. McG.  
(Dean of Fac. Applied Sc.).

- Robb, C. A., B.Sc. McG., M.S.  
M.I.T. Prof.
- Morrison, I. F., B.S. M.I.T. Prof.
- Webb, H. R., M.Sc. Asst. Prof.
- Hardy, R. McD., B.Sc. Man., M.Sc.  
McG. Sessional Lectr.
- Seymour, H. L., B.Sc. Tor.  
Special Lectr. in Town  
Planning.
- Sexton, J. K., B.E. Sask.  
Sessional Demr.
- Engineering, Electrical*
- MacLeod, H. J., B.Sc. McG., Ph.D.  
Harv., M.Sc. Pro.
- Cornish, W. E., B.Sc. Man. Lectr.
- Porteous, J. W., B.Sc. Instr.
- English*
- Broadus, E. K., M.A. Chic., Ph.D.  
Harv. Prof.
- Gordon, R. K., B.A. Ox., M.A.,  
Ph.D. Tor. Prof.
- Jones, J. T., B.A. Ox., M.A.  
Asst. Prof.
- Fisher, J., B.A., B.Litt. Ox. Instr.
- Entomology* [Prof.]
- Strickland, E. H., M.Sc. Harv.
- French and Ger., v. Mod. Langs.*
- Geology*
- Allan, J. A., M.Sc. McG., Ph.D.  
M.I.T., F.R.S.C. Prof.
- Warren, P. S., B.A., Ph.D. Tor.,  
A.R.C.S. Lond. Assoc. Prof.
- Rutherford, R. L., Ph.D. Wisc.,  
M.Sc. Asst. Prof.
- History* [Prof.]
- Smith, G. M., B.A. Tor., M.A. Ox.
- Long, M. H., B.A. McM., M.A. Ox.  
Assoc. Prof.
- Collins, R. W., M.A. Ac., Ph.D.  
Col. Asst. Prof.
- Household Economics*
- Patrick, Mabel, B.A. Tor., M.A.  
Col. Director, Assoc. Prof.
- MacIntyre, E. H., M.S. Ames, B.Sc.  
Instr.
- Doyle, Margaret M., B.Sc. Minn.  
Instr.
- Duggan, Grace, B.Sc. Asst.
- Law*
- Weir, J. A., B.A. Ox., LL.B. Sask.  
Dean.
- Ford, Hon. Mr. Justice F., B.C.L.  
Trin. Coll. Tor., D.C.L. Tor.  
Hon. Prof.
- MacIntyre, M. M., B.A. Mt. Allison,  
LL.M. Harv. Asst. Prof.
- Tweedie, Hon. Mr. Justice  
Special Lectr.
- 3 Sessional Lectrs.
- 2 Sessional Instrs.
- Mathematics*
- Sheldon, E. W., M.A. McG., Ph.D.  
Yale Prof.
- Campbell, J. W., M.A. Qu., Ph.D.  
Chic. Prof.
- Cook, A. J., M.A. Harv., Ph.D.  
Chic., B.Sc. Assoc. Prof.
- Keeping, E. S., B.Sc. Lond., D.I.C.  
Asst. Prof.
- Medicine, v. infra*
- Mining Engineering*
- Pitcher, N. C., B.Sc. McG. Prof.
- Cameron, A. E., M.Sc. McG., D.Sc.  
(Metall.) Prof.
- Modern Languages*
- Kerr, W. A. R., M.A. Tor., Ph.D.  
Harv., O.I.P. Prof.
- (Dean of Fac. Arts and Sc.).
- Coar, J. F., M.A., Ph.D. Harv.  
Prof. (German).
- Sonet, E., B. ès L. Lyons, M.A.  
Alta., D. ès L. Rennes  
Prof. (French).
- Owen, F., M.A. Tor., Ph.D. Chic.  
Assoc. Prof. (Ger.).
- de Savoye, H., B. ès L. Paris, LL.B.,  
O.A. Asst. Prof. (French).
- Allard, H., M.A. Man., B.A. Ox.  
(French) Lectr.
- Rev. Brother Rogatian, F.S.C.  
Lectr. (Spanish).
- Philosophy*
- MacEachran, J. M., M.A. Qu.,  
Ph.D. Leip. Prof.
- Macdonald, J., M.A., D.Litt.  
Edin. Assoc. Prof.

Lazerte, M. E., B.A. Tor., M.A.,  
B.Educ., Ph.D. Chic.

Director, Sch. of Edn.,  
Assoc. Prof.

Rev. Brother Philip, M.A. Tor.,  
Ph.D. Cath. U. of A.  
Asst. Prof.

Smith, H. E., B.A. Ill., Ph.D. Cal.,  
M.A., B.Educ.

Asst. Prof. of Edn.  
12 Demrs in Edn.

### *Physics*

Smith, S., M.A., B.Sc. Ox.,  
F.R.S.C. Prof.

Lang, R. J., B.A. McM., M.A.,  
Ph.D. Tor. Assoc. Prof.

Nichols, L. H., B.A. McG., M.A.  
Asst. Prof.

Gowan, E. H., Ph.D. Ox., B.A.,  
B.Sc. Lectr.

### *Physiology and Pharmacology*

Downs, A. W., M.A. Phila., M.D.  
Penns., D.Sc. McG. Prof.

Gelfan, S., B.A., Ph.D. Calif.  
Asst. Prof.

Ferguson, J., B.A. Tor., M.A.  
Stanf. Lectr.

Brearley, G. G., B.A., M.D. Demr.

### *Political Economy*

Elliott, G. A., M.A. Man. Prof.  
Hewetson, H. W., B.A. Tor., M.A.  
B.C. Lectr.

Harvey, W. B., B.A., LL.B., M.A.  
Man. Sessional Lectr.

### *Zoology* [Assoc. Prof.]

Rowan, W., D.Sc. Lond., F.Z.S.  
Hughes, Winifred, M.A. Sask.,  
Ph.D. Chic. Asst. Prof.

Siemens, H., B.Sc. Man., M.Sc.  
Fellow.

## Agriculture

### *Agr. Engineering* [Prof.]

Smith, J. MacG., B.S.A. Man.

### *Animal Husbandry*

Sackville, J. P., B.S.A. Tor., M.S.  
Iowa Prof.

Bowstead, J. E., M.S., Ph.D.  
Wisc. Assoc. Prof.

Sinclair, R. D., B.S.A. Alta., M.S.  
Iowa Assoc. Prof.

### *Dairying*

Marker, C. P., LL.D. Prof.

Thornton, H. R., M.Sc., Ph.D.  
Wisc., B.Sc. Prof

### *Field Crops*

..... Prof

### *Assoc. Profs.:*

Aamodt, O. S., M.S., Ph.D. Minn.

Fryer, J. R., M.A. Tor., Ph.D.  
Calif.

Henry, A. W., M.S.A. Sask., Ph.D.  
Minn.

### *History of Agr.*

Howes, E. A., B.S.A. Tor., D.Sc.  
Laval (Dean).

### *Horticulture*

Harcourt, G., B.S.A. Tor. Lectr.

### *Poultry*

Milne, H. I., B.S.A. Brit. Col.,  
M.Sc. Lectr.

### *Soils*

Wyatt, F. A., B.S.A. Utah, M.S.,  
Ph.D. Ill. Prof.

Newton, J. D., B.S.A. Macd.,  
Ph.D. Calif. Assoc. Prof.

Leahey, A., B.S.A., M.Sc. Lectr.

### *Veterinary Science*

Talbot, P. R., V.S. Tor., M.D.V.  
Chic. Prof.

## Medicine

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

### *Bacteriology and Hygiene*

Rankin, A. C., C.M.G., M.D.,  
C.M., D.P.H. McG., L.R.C.P.,  
M.R.C.S. Dean.

Shaw, R. M., B.A. Dal., M.D.,  
C.M., D.P.H. McG. Prof.

Harris, L. C., M.D., C.M. McG.  
Demr.

Simpson, Greta, B.Sc. Demr.

McGugan, A. C., M.D. Demr.

*Dermatology*

Orr, H., O.B.E., M.B., D.P.H. Tor.,  
F.R.C.P. Can. Clin. Prof.

*Gynaecology and Obstetrics*

Conn, L. C., M.D., C.M. McG.,  
F.A.C.S. Prof.

Harrison, J. D., M.D., C.M. McG.,  
F.A.C.S. Assoc. Prof.

Baker, J. O., M.D., C.M. Qu.  
Assoc. Prof.

Holmes, C. U., M.B. Tor. Instr.

Day, Allan, M.B. Tor. Instr.

Vant, J. R., B.A., M.D. Manit.  
Instr.

*Medicine and Clinical Medicine*

Pope, E. L., B.A. Qu., M.D., C.M.  
McG., M.R.C.P. Lond.,  
F.R.C.P. Can. Prof.

Jamieson, H. C., M.B. Tor.,  
F.R.C.P. Can. Assoc. Prof.

Bell, I. R., B.A., M.B. Tor.,  
F.R.C.P. Can.

Assoc. Prof. (Therap.).  
Hurlburt, C. W., M.B. Tor.

Clin. Prof. (Cardiology).  
Scott, W. H., M.D., C.M. McG.,  
F.R.C.P. Can. Asst. Prof.

*Lecturers :*

Blezard, J. A., M.B., M.D., C.M.  
Qu.

Proctor, R., M.D. Man.

Scott, J. W., M.D., C.M. McG.

Hamilton, K., B.A. Tor., B.A.,  
M.B., B.Ch. Ox., M.R.C.P.

Lond.

2 Instrs., 2 Hon. Instrs., 2 Demrs.

*Ophthalmol. and Oto-Laryngol.*

Wells, R. B., M.B. Tor., F.A.C.S.  
Clin. Prof.

Jamieson, C. V., M.B. Tor.

Clin. Prof.

3 Demrs.

*Pathology*

Ower, J. J., B.A., M.D., C.M.  
McG.

Prof. and Provincial Serologist.  
Macgregor, J. H., B.A., M.D.

Lectr.

3 Demrs.

*Pediatrics*

Leitch, D. B., B.A., M.B. Tor.,  
F.R.C.P. Can. Clin. Prof.

*Pharmacology, v. Physiol.**Pharmacy and Mat. Med.*

Dunn, F. A. S., Ph.C. Tor., M.P.S.  
Gr. Bn., M.Sc. Prof.

Matthews, A. W., B.Sc. Phm.,  
M.Sc. Asst. Prof.

*Psychiatry*

Baragar, C. A., B.A., M.D., C.M.  
Man. Lectr.

Davidson, G. A., M.D. Manit,  
M.R.C.P. Instr.

McAlister, W. J., M.D., C.M.  
McG. Instr.

*Public Health*

Bow, M. R., B.A., M.D., C.M. Qu.,  
D.P.H. Tor. Assoc. Prof.

Jenkins, R. B., M.D. Man., D.P.H.  
Tor. Lectr.

*Surgery and Clinical Surgery*

Munroe, A. R., M.D., C.M. McG.,  
F.R.C.S. Can. Prof. of Surg.

Gray, G. C., M.B. Tor., F.R.C.S.  
Can. Assoc. Prof.

Wilson, W. A., M.D., C.M. McG.,  
F.R.C.S. Can. Assoc. Prof.

Hepburn, H. H., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.

Asst. Prof.

Blais, A., M.D., B.S. Laval

Asst. Prof.

Mewburn, F. H. H., B.Sc., M.D.,  
C.M. McG., F.R.C.S. Can.

(Orthop.) Clin. Prof.

Smith, E. C., M.D., C.M. McG.,  
F.R.C.S. Can. Clin. Prof.

Gillespie, W. F., M.B. Tor., M.A.

Asst. Prof.

Petitclerc, J. L., M.D. Laval

Asst. Prof.

Greene, E., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.

Lectr.

6 Instrs.

**Dentistry**

Bulyea, H. E., D.M.D. Harv Prof.  
 Gilchrist, H. A., D.D.S. Northwn.  
 Assoc. Prof.

Hamilton, W. S., L.D.S., D.D.S.  
 Tor. Asst. Prof.

**Lecturers :**

Craig, W. P., M.A. Wash. and Jeff,  
 D.D.S. (Northwestern).

Hope, G. J., L.D.S., D.D.S. Tor.

Roberts, J. G., L.D.S., D.D.S. Tor.

Gemeroy, G. A., L.D.S., D.D.S.  
 Tor.

Mason, A. B., D.D.S. Penn.

Sneddon, S. M., L.D.S., D.D.S.  
 Tor.

Strong, O. F., D.D.S. West. Res.

Bradley, R. W., D.D.S. McG.

**Instructors :**

Mercer, F. S., L.D.S., D.D.S. Tor.

Thurston, G. B., L.D.S., D.D.S.  
 Tor.

Lloyd, V. M., L.D.S., D.D.S., B.Sc.  
 Tor. Demr.

**Industrial Laboratories**

Kelso, J. A., M.Sc. Qu Director  
 Lynn, S. C., B.Sc. Asst.

**Industrial Research Profs.**

Stansfield, E., M.Sc. Manc.

(Fuels)  
 Clark, K. A., M.A. McM., Ph.D.  
 Ill. (Road Materials).

**Physical Education**

..... Director  
 Bakewell, Edna G., B.A.  
 Asst. Dir.

**Correspondence Courses**

MacKenzie, D. S. Director

**Department of Extension**

Corbett, E. A., M.A. McG.  
 Director.  
 Montgomery, Jessie, B.A. Libn.  
 Cameron, D., B.Sc. Lectr.

**AFFILIATED INSTITUTIONS**

ST. STEPHEN'S COLLEGE, Theological College of the United Church of Canada, is situated on the University Campus. Principal—A. S. Tuttle, M.A., D.D., Mt. All.

ST. AIDAN'S COLLEGE and Hostel (Anglican)—affiliated 1919. Warden—.....

ST. JOSEPH'S CATHOLIC COLLEGE (Arts). Rector—Rev. Brother Rogatian, F.S.C. Affiliated to the Univ. in May 1926 as an Arts Coll. working under the authority of the Senate; occupies a site on the Univ. Campus.

THE PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART, Calgary, operates directly under the authority of the Dept. of Education. Affiliated May 13, 1926. Principal—W. G. Carpenter, B.A., LL.D.

**GENERAL INFORMATION**

For the early history of the University, created by Act of the Legislative Assembly (Alberta), 1906, see *Year Book* for 1929. In 1919-20 the large post-war increase in the number of medical students necessitated the construction of a new Medical Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Dept. under the Fac. of Medicine to an independent unit. Similarly in 1928-1929 Commerce and Household Economics were raised to the status of Schools and provision made for a School of Education, the latter taking over from the Provincial Normal Schools the professional training of Univ. graduates. The Provincial Legislature has established a close relationship between the Univ.

and the Professions, and the Senate now has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The Univ., whose property covers 637 acres, is situated in the city of Edmonton, the capital of the Province of Alberta. The grounds run along the wooded southern bank of the Saskatchewan river and afford ample room for playing fields and the expansion of the building scheme.

**LIBRARY**, 45,000 vols. **LABORATORIES** for all scientific courses; museum; herbarium; farm; agricultural experimental plots.

**FUEL TESTING LABORATORY.** For the detailed study of the chemical and physical properties of Alberta coals; also for investigating industrial problems such as coking, carbonizing, briquetting, combustion, storage and purification of coal.

**RESEARCH LABORATORIES OF DEPARTMENT OF FIELD CROPS.** These laboratories have been developed during the past six years for the investigation of special problems underlying crop production in Western Canada. Progress has been greatly facilitated by grants-in-aid of special researches received from the National Research Council. The programme of investigation covers such important problems as the nature of resistance to frost, drought, and disease; methods of eliminating false wild oats; and factors affecting the milling and baking qualities of wheat.

**FACULTIES.** Arts and Sciences (incl. Schools of Household Econ., Pharmacy [degree], Commerce and Education); Applied Science (Civil, Mining, Chemical, and Electrical Engineering and Architecture); Medicine (including Dentistry, Pharmacy [diploma], and Nursing); Law; Agriculture.

**MATRICULATION** examns. are conducted in April and Sept., under control of High School and Univ. Matricn. Examns. Board of the Province. Equivalent examns. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

**DEGREE COURSES.** 4 yrs. (honours, 5 yrs.)—B.A., B.Sc. in Arts, B.Com., B.Sc. in Household Ec., in Engin. (Civ., Elec., Chem., or Mining), in Archit., or in Pharmacy; 3 yrs. (after qualifying in a Provincial Sch. of Agr.)—B.H.Ec. (in Household Econ.), B.Sc. in Agric.; 6 yrs.—M.D.; 5 yrs.—B.Sc. in Nursing, LL.B., D.D.S.; 6 years—Combined B.A. and B.Sc. in Agric., and in Applied Sc.; 8 yrs.—B.A. and M.D.; 6 yrs.—B.A. and LL.B. The Agric. course is preceded by preliminary training at one of the Provincial Agric. Schools.

A Bachelor may obtain the M.A. or M.Sc. in from 1-2 yrs. of advanced study or investigation or the B.Ed. in from 2-3 yrs. of advanced study and research. The D.Sc. is conferred for distinction in original research in the field of science. The B.D. is open to B.A. students of affiliated Colls. on completion of approved courses. The LL.D. is honorary.

**OTHER COURSES:** For Licence in Pharmacy; Correspondence Courses for Teachers (Senr. Matricn. subjects); Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn.; Professional qualification for the Teacher's High School Certificate issued by the Provincial Dept. of Education; 3 mos.' course in P.H. Nursing for Registered Nurses; Provincial Dairy School short courses; 3 yrs.' course for qualification of Regd. Nurse.

A system of EXCHANGE LECTURES is carried on in co-operation with Manit., Sask., and British Columbia Universities.

FEES, tuition per session : Arts (including 4 yrs.' degree courses in Pharmacy and Household Economics and 1st yr. Commerce), \$85; subsequent years B.Com., \$100; Appl. Sc., \$85 to \$125; Law, \$110; Med., \$140 to \$190; Dent., \$140 to \$210; Agric. (including 3 yrs.' course Household Economics), \$60. Licentiate Pharmacy, \$100 to \$120. Students' Union, \$13; Med. Service, \$5; Library, \$5.

RESIDENCE, ETC. 5 Halls of residence (including 2 belonging to affiliated Colleges), with accommodation for 525. Fees for room and board for the session, \$224; board only, \$20 per month. Social life is under supervision of Provost, a Univ. officer. All undergraduates are members of Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, publication of material for debating and public discussion, travelling and packet libraries, and lantern slide and cinema services. The Extension Dept. has its own Radio Broadcasting Station.

PUBLICATIONS. *Calendar* (April); *Press Bulletin*, weekly, by Dept. of Extension; *The Trail*, quarterly, by Alumni Assocn.; *The Gateway*, weekly, *The Evergreen and Gold*, annually, by students.

## THE YEAR 1931-32

BENEFACTIONS. Gift of \$15,000 over 3 yrs. from Carnegie Corporation, to be used for the advancement of music, drama, and the plastic arts in Alberta; numerous other gifts for various purposes from many societies and private individuals.

EXTENSION WORK. Lantern slides sent out, 1718 sets; films, 291 sets; lectures, 193; travelling libraries, 272; radio lectures, 477; University Week for Farm Young People; gramophone records, 45.

VISITS OF TEACHERS FROM OTHER UNIVS. Prof. E. S. Déjardins, Dept. of Physics, Univ. of Lyons, France.

RETIREMENTS AND RESIGNATIONS. L. A. Gilbert (English); T. M. Cutt (Classics); R. Newton (Field Crops).

HONORARY DEGREE. LL.D.—Hon. William Legh Walsh.

STUDENTS. Full-time: total, 1864, including 78 graduates. Part-time: total 74.

DEGREES. B.A., 96; B.Sc. in Arts, 37; B.Com., 7; B.Sc. in Pharmacy, 4; B.Sc. in Household Econ., 18; B.Sc. in Chem. Engin., 3; B.Sc. in Civil Engin., 4; B.Sc. in Elect. Engin., 8; B.Sc. in Mining Engin., 6; B.Sc. in Archit., 1; B.Sc. in Agric., 15; LL.B., 11; M.D., 22; D.D.S., 7; M.A., 9; M.Sc., 14; B.D., 1; High School Teachers' Certif., 20.



# UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

CHANCELLOR—F. E. MEREDITH, D.C.L., LL.D., K.C.

VICE-CHANCELLOR—Rev. A. H. McGREER, O.B.E., M.C., M.A. Ox.,  
D.D., Principal of the College and Dean of Arts.

REGISTRAR—S. SANDERS, Bursar and Secy. of the College.

FACULTY OF ARTS—DEAN, THE PRINCIPAL.

FACULTY OF DIVINITY—DEAN, Rev. P. CARRINGTON, M.A. Camb.

## PROFESSORS AND LECTURERS

### *Classics*

Preston, A. W., M.A. Edin., B.A.  
Ox. Lectr.

### *History*

Boothroyd, E. E., M.A. Camb.,  
D.C.L. Prof.

### *Divinity*

Carrington, Rev. P., M.A. Camb.  
and N.Z. Harold Prof.

### *Mathematics*

Richardson, A. V., M.A. Camb.,  
D.C.L. Prof.

### *Education*

Rothney, W. O., M.A. Chic., B.D.,  
Ph.D. Hartf. Prof.

### *Modern Languages*

Call, F. O., M.A., D.C.L. Prof.

### *Natural Science*

Kuehner, A. L., M.A. Queen's  
Home, M., M.Sc. McGill Asst. Prof.

### *English*

Raymond, W. O., M.A., Ph.D.  
Mich. Prof.

### *Pastoral Theology*

Vial, F. G., M.A., B.D., D.C.L.  
Mountain Prof.

### *Hebrew and O. Test.*

Sauerbrei, C., B.A. Tor., L.S.T. [Lectr.]

### *Philosophy and Economics*

Burt, Rev. H. C., M.A. Tor. Prof.

## GENERAL INFORMATION

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 3 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs. may be counted up to 2 yrs. Clergymen of the Dioceses of Canada may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

FEEs. For tuition, \$125 p.a. for an Arts student; \$75 p.a. for a Divinity student; board and furnished lodging with heating and lighting, \$325 p.a.

PUBLICATION: *Calendar* (Oct.).

## THE YEAR 1931-32

NEW DEVELOPMENTS. Summer School for Teachers established in 1931.

HONORARY DEGREES. D.C.L.—His Excellency The Earl of Bessborough, Governor-General of Canada; The Rt. Hon. R. B. Bennett, K C., LL D., Prime Minister of Canada; The Hon. L. Athanose David, K.C., Provincial Secretary of Quebec; Aimé Geoffrion, Esq., K.C., B.C.L.; The Rev. Canon A. P. Gower Rees, M.A., Rector of St. George's Church, Montreal.

STUDENTS. Full-time: total, 148, including 23 graduates. Summer School, 1931 (for Teachers who held B.A. degree), 20.

DEGREES OBTAINED. D.C.L. (*Honoris Causa*), 5; B.A., 31; M.A., 4; B.D., 1; L.S.T., 9.

# THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

Telegraphic Address—UBRICO.

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R. E. McKECHNIE, M.D., C.M., LL.D., F.A.C.S.

PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., LL.D. West  
Ont., D.Sc. Iowa, O.I.P.

REGISTRAR—S. W. MATHEWS, M.A. Qu.

LIBRARIAN—J. RIDINGTON.

## PROFESSORS, LECTURERS, ETC.

<i>Agriculture, v infra</i>	Allardyce, J., M.A.	Asst. Prof.
<i>Bacteriology</i>	4 Assts.	
Hill, H. W., M.B., M.D., D.P.H.	<i>Classics</i>	[Prof.
Tor., LL.D. West Ont.,	Robertson, L. F., M.A. McG.	
L.M.C.C. Prof.	Todd, O. J., Ph D. Harv.	Prof.
Mathews, Miss H. M., M.A. Instr.	Logan, H. T., M.C., B.A. McG.,	
Duff, D. C. B., M.A., Ph.D. Tor.	M.A. Ox.	Prof.
Instr.	Owen, E., M.A. Ox.	Asst. Prof.
1 Asst.	Auld, Jean M., B.A. Color., M.A.	
<i>Botany</i>	McG.	Asst.
Hutchinson, A. H., M.A. McM.,	<i>Dairying, v. Agric.</i>	
Ph.D Chic.	<i>Economics, Sociology, &amp; Polit. Sc.</i>	
Dickson, Frank, B.A. Qu., Ph.D.	Angus, H. F., B.A. McG., B.C.L.,	
Corn.	M.A. Ox	Prof.
Davidson, J., F.L.S., F.R.S.E.	Carrothers, W. A., B.A. Manit.,	
Assoc. Prof.	Ph.D. Edin.	Prof.
9 Assts.	Day, J. F., B.A. Tor., M.A. Chic.	
<i>Chemistry</i>	Assoc. Prof. (Ec. & Com.).	
Clark, R. H., M.A. Tor., Ph.D.	Topping, C. W., B.A. Qu., S.T.D.	
Leip., F.R.S.C.	Wesley Theol. Coll., A.M.,	
Archibald, E. H., B.Sc. Dal., A.M.,	Ph.D. Col.	
Ph.D. Harv., F.R.S.E. and C.	Assoc. Prof. (Ec. & Soc.).	
Prof. (Anal. C.).	Drummond, G. F., M.A. St. A.,	
Seyer, W. F., B.A., M.Sc. Alb.,	M.Sc. Lond.	Asst. Prof.
Ph.D. McG.	Assoc. Prof.	
Marshall, M. J., M.Sc. McG., Ph.D.	3 Lectrs., 8 Assts.	
Mass. Inst. Tech. Assoc. Prof.	<i>Education, v. also Philosophy</i>	
Harris, J. Allen, Ph.D. Ill., M.A.	Weir, G. M., B.A. McG., M.A.	
Asst. Prof.	Sask., D.Pæd. Queen's	Prof.
Ure, W., Ph.D. Cal. Inst. Tech.,	Assoc. Profs. :	
M.A.Sc.	Black, W. G., M.A. Chic., B.A.	
Asst. Prof.		

Pilcher, Mrs. J. W., B.A., M.Sc.  
N.Z., A.M., Ph.D. Stanford  
6 Part-time Lectrs.

*Engineering, Civil, & Surveying*

..... Prof.  
Matheson, E. G., B.A.Sc. McG.,  
M.E.I.C., M.Am.S.C.E.  
Assoc. Prof.  
Wilkin, F. A., B.A.Sc. McG.

Asst. Prof.  
Finlay, A. H., M.S. in C.E. Ill.,  
B.A.Sc. Asst. Prof.  
Lighthall, A., B.Sc. McG. Asst. Prof.  
Stuart, A. G., B.Sc. McG. Instr.  
Pretious, E. S., B.A. Sc. Instr.

*Engineering, Mech. & Elec.*

Vickers, H., M.E. Liv., M.Sc., Ph.D.  
Birm. Prof.  
Vernon, F. W., B.Sc. (Eng.) Lond.,  
Wh. Sch.  
(Mech. Eng.) Assoc. Prof.  
Letson, H. F. G., M.C., Ph.D. (Eng.)  
Lond., B.Sc. Asst. Prof.  
Cullwick, E. G., M.A. Camb.  
(Elect. Eng.) Asst. Prof.  
Smith, G. S., M.A.Sc. McG.  
(Mech. Eng.) Asst. Prof.  
Coulthard, W. B., B.Sc. Lond.  
(Elect. Eng.) Asst. Prof.  
Bell, J. F., Eng. Capt. R.N.,  
O.B.E., M.E.I.C. Instr.  
1 Asst.

*English*

Sedgewick, G. G., B.A. Dal., Ph.D.  
Harv. Prof.  
MacDonald, W. L., B.A. Tor., M.A.  
Wisc., Ph.D. Harv. Assoc. Prof.  
Wood, F. G. C., B.A. McG., A.M.  
Harv. Assoc. Prof.  
Larsen, Thorleif, M.A. Tor., B.A.  
Ox. Assoc. Prof.  
Walker, F. C., B.A. N. Brun., A.M.,  
Ph.D. Harv. Assoc. Prof.  
Wilcox, F. H., A.B., Ph.D. Calif.  
Assoc. Prof.  
Bollert, Miss M. L., M.A. Tor.,  
A.M. Col. (Dean of Women)  
Asst. Prof.

Lewis, H. C., M.A. Asst. Prof.  
3 Assts.

*Forestry*

Christie, H. R., B.Sc.F. Tor. Prof.  
Knapp, F. M., B.S.F. Syracuse,  
M.S.F. Wash. Asst. Prof.  
Brown, R. M., B.Sc.F. Tor.  
(Forest Prod.) Hon. Lectr.

*French, v. Mod. Langs.*

*Geology and Geography*

Brock, R. W., M.A., LL.D. Qu.,  
F.G.S., F.R.S.C. (Dean of  
Fac.) Prof.  
Schofield, S. J., M.A., B.Sc. Qu.,  
Ph.D. Mass. I. Tech., F.G.S.A.,  
F.R.S.C.  
(Phys. and Struct. Geol.) Prof.  
Williams, M. Y., B.Sc. Qu., Ph.D.  
Yale, F.G.S.A., F.R.S.C.  
(Palæont. and Strati-  
graphy) Prof.  
Phemister, T. C., Sc M. Chic.,  
Ph.D., D.Sc. Glas.  
(Miner. and Petrography)  
Assoc. Prof.

1 Asst.

*History*

..... Prof.  
Sage, W. N., B.A. Tor., M.A. Ox.,  
Ph.D. Tor. Prof.  
Soward, F. H., B.A. Tor., B.Litt.  
Ox. Assoc. Prof.  
Cooke, A. C., B.A. Man., M.A. Ox.  
Asst. Prof.

2 Assts.

*Horticulture, v. Agr.*

*Mathematics*

Buchanan, D., M.A., Ph.D. Chic.,  
LL.D. McM., F.R.S.C. (Dean  
of Fac.) Prof.  
Nowlan, F. S., B.A. Acad., A.M.  
Harv., Ph.D. Chic. Prof.  
Robinson, G. E., B.A. Dal.  
Emer. Prof.  
Jordan, E. E., M.A. Dal.  
Assoc. Prof.  
Richardson, L., B.Sc. Lond.  
Assoc. Prof.

Brand, F. J., B.Sc. Ox., B.A.  
Instr.

7 Assts.

*Mining and Metallurgy* [Prof.  
Turnbull, J. M., B.A.Sc. McG.  
Thomson, H. N., B.Sc. McG  
(Metall.) Prof.  
Gillies, G. A., M.Sc. McG.  
(Mining) Assoc. Prof.

1 Asst.

*Modern Languages*  
Ashton, H., M.A., Litt.D. Camb.,  
D. ès L. Paris, D.Litt. Birm.,  
F.R.S.C., Chev. Lég. d'H.,  
O.I.P. (French) Prof  
Evans, David O., M.A., Ph.D. Ox.,  
D. ès L. Paris Prof.  
Clark, A. F. B., B.A. Tor., Ph.D.  
Harv. (French) Prof.  
MacInnes, Isabel, M.A. Qu., Ph.D.  
Calif. (German) Assoc. Prof  
Greig, Janet, B.A. Qu., M.A.  
(French) Asst. Prof.

Instructors :  
Hallamore, Joyce, M.A.  
Delavault, E. E., L. en D. Paris.  
Barry, Mme G.  
Tipping, Wessie, M.A.  
Darlington, Mme.  
Dallas, Dorothy, M.A.  
4 Assts.

*Nursing and Health* [Prof.  
Hill, H. W. (v. Bacteriology)  
Gray, Miss M. F., R.N., Cert. P.H.N.  
Simmons Coll. Asst. Prof.  
Kerr, Margaret E., M.A. Col.,  
B.A.Sc. Instr.  
14 Part-time Instrs.

*Philosophy*  
Coleman, H. T. J., B.A. Tor.,  
Ph.D. Col. Prof.  
Henderson, J., M.A. Glas. Prof  
Pilcher, Mrs. J. W., B.A., M.Sc.  
N.Z., A.M., Ph.D. Stanford  
(Psychol. and Edn.) Assoc. Prof.

*Physics*  
Hebb, T. C., M.A., B.Sc. Dal.,  
Ph.D. Chic. Prof.

Hennings, A. E., M.A. Lake  
Forest Coll., Ill., Ph.D. Chic.  
Prof.

Davidson, J. G., B.A. Tor., Ph.D.  
Calif. Assoc. Prof.  
Shrum, G. M., M.A., Ph.D. Tor.  
Assoc. Prof.  
Grayson-Smith, H., M.A., Ph.D.  
Tor. Asst. Prof.  
3 Assts.

*Zoology*  
Fraser, C. McL., M.A. Tor., Ph.D.  
Iowa, F.R.S.C. Prof.  
Spencer, G. J., B.S.A. Tor., M.S.  
Illinois Asst. Prof.  
Smith, Gertrude M., M.A.  
Asst. Prof.

1 Asst.

## Agriculture

*Agronomy*  
Moe, G. G., B.S.A., M.Sc. McG.,  
Ph.D. Cornell Prof.  
Boving, P. A., Cand. Phil. and  
Agr. (Sweden) Prof.  
Laird, D. G., B.S.A. Tor., M.S.  
Ph.D. Wisc. Assoc. Prof.

*Animal Husbandry*  
King, H. M., B.S.A. Tor., M.S.  
Oregon Ag. Coll. Prof.  
Davis, R. L., B.S. Mont.,  
M.S. Iowa S.C. Assoc. Prof.  
Hare, H. R., B.S.A. Tor., M.A.  
Wisc. Assoc. Prof.  
Jervis, J. G., V.S. Ont. Vet. Col.,  
B.V.Sc. Tor.  
(Vet. Sc.) Sp. Lectr.

*Dairying*  
Sadler, W., B.S.A., M.Sc. McG.,  
N.D.D. Reading Prof.  
Golding, N. S., N.D.A., N.D.D.,  
B.S.A. Tor., M.Sc., Ph.D.  
Iowa Assoc. Prof.  
Eagles, B., Ph.D. Tor., B.A.  
Assoc. Prof.  
1 Asst.

*Horticulture*  
Clement, F. M., B.S.A. Tor., M.A.  
Wisc. (Dean of Fac.) Prof.

Barss, A. F., A.B. Roch, B.S.Agr. Corn., M.S. Oreg. Ag. Coll., Ph.D. Chic. Prof.	<i>Poultry Husbandry</i> Lloyd, E. A., B.S.A. Sask., M.S.A. Wash S.C. Prof. Asmundson, V. S., B.S.A. Sask., M.S.A. Corn., Ph.D. Wisc. Assoc. Prof.
Buck, F. E., B.S.A. McG. Assoc. Prof.	
Harris, G. H., B.S.A., M.S. Oreg. S.C., Ph.D. Calif. Asst. Prof.	4 Assts in Agric under Special Re- search Grants

## AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts. Principal—P. H. Elliott, M.Sc. McG., Assoc. Prof. of Science, 7 Asst. Profs., 1 Instr.

UNION COLLEGE OF BRITISH COLUMBIA, Vancouver (United Church of Canada)—Principal, Rev. J. G. Brown, M.A., D.D.; and THE ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—Principal Rev. W. H. Vance, M.A., D.D. Both Colls. were affiliated in 1922.

## GENERAL INFORMATION

The University of British Columbia was incorporated by an Act of 1908. For early history, see *Yearbook* for 1929. The University site consists of 548 acres on the headland of Point Grey, 300 feet above the sea. Here a group of buildings constructed at a cost of nearly \$2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists of the Minister of Educn., Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of Educn., principals of normal schools, one member elected by high school principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll or School in the Province, 15 by Convocation.

The Univ. is an integral part of the public educational system of the Province, and its function is to complete the work begun in the public and high schools. It is the policy of the Univ. to promote education in general and, in particular, to serve its constituency through three channels—teaching, research, and extension work. It furnishes instruction in the various branches of a liberal education, and in those technical departments which are most directly related to the life and industries of the Province. The people of the Province are informed of the results of special work by the staff of the Univ. through extension lectures. Lecturers are sent to various parts of the Province during the examination weeks in Dec. and April. In places which can be visited without prejudice to the duties of the lecturer at the Univ., lectures are arranged to take place during term.

The LIBRARY has 80,000 vols. and over 10,000 pamphlets, and regularly receives 550 periodicals. LABORATORIES available for all courses. A Forest Products Lab. was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada, v. App. XXIV. B.I. HERBARIUM, 16,000 sheets native flora, 200 water colours B.C. Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

FACULTIES. Arts and Science, Applied Science (Civil, Elec., Mech., Forest, Geological, Metallurgical, Mining, and Chemical Engineering, Chemistry, Nursing and Health), Agriculture (including Dairying and Horticulture).

**PENSION SCHEME.** In 1924 a contributory plan of retiring allowances for members of the teaching staff was adopted, contracts being placed with the Teachers' Insurance and Annuity Assocn. of America. The same year the Univ. was associated with the Carnegie Foundation for the Advancement of Teaching, v. p. 370.

**MATRICULATION** examns., Junior and Senior, are arranged by the High School and Univ. Matricn. Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance to the University.

**DEGREE COURSES.** B.A., 4 yrs. (3 from Senior Matricn.). B.Com., 4 yrs. B.A.Sc. in Applied Science, 5 yrs. (4 from 1st yr. in Arts or Senr. matricn.). B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A. Short courses in Agric. at the Univ. and elsewhere. 1 yr. course in Public Health for graduate nurses. Occupational course of 1 yr. in Agriculture; Social Service, 2 yrs., leading to diploma. Evening Courses, with summer excursions, in Botany.

**SUMMER SESSION.** In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree.

**FEES, inclusive, \$125-\$175 per session. Graduation, \$15.**

**SCHOLARSHIPS FOR GRADUATES.** \$200 awardable to graduate for further studies; three of \$100, one being for Applied Science and one for Canadian History; one of 10,000 francs for study in France.

**RESIDENCE.** Board and lodging in vicinity of the College from \$35 to \$45 p.m.

**UNIVERSITY EXTENSION.** Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr. tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

**PUBLICATIONS.** *Requirements for Matriculation*; *Calendar* (April); Announcements of Short Courses in Agric.

## THE YEAR 1931-32

**RETIREMENT.** Prof. G. E. Robinson (Maths.).

**HONORARY DEGREES.** LL.D.—The Hon. Henry Herbert Stevens, P.C.; Edward Burness Paul, M.A., LL.D.

**STUDENTS.** Full-time: total, 2045, including 218 graduates. Part-time: total, 723, including 52 graduates. Short Courses: Summer Session, 1931, 441. Agric., 127; Occup. Course (Agr.), 13; Public Health Nursing, 10; Botany, 48; Late Afternoon and Saturday Morning Classes, 107; Social Service, 36.

**DEGREES.** M.A., 21; B.A., 232; B.Com., 16; M.A.Sc., 2; B.A.Sc., 45 M.S.A., 9; B.S.A., 6.

# DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—HECTOR MCINNES, LL.B.,  
K C.

PRESIDENT OF THE UNIVERSITY—CARLETON W. STANLEY, B.A. Tor.,  
M.A. Ox.

REGISTRAR—Prof. M. MACNEILL, M.A.

## PROFESSORS, LECTURERS, ETC.

### *Anatomy*

Mainland, D., M.B., Ch.B. Edin.

Campbell Prof.

Ross, R. F., B.A., M.D., C.M.

Asst. Prof

Holland, C. W., B.A., M.D., C.M.

Demr.

### *Biblical Literature*

Watson, W. G., B.A. Tor., D.D.

Vic. Lectr.

### *Biology*

Bell, H. P., Ph.D. Tor., M.Sc.

Prof

Hayes, F. R., B.Sc., M.Sc., Ph.D

Liv. Assoc. Prof

Pelluet, Dixie, Ph.D. Bryn Mawr

Lectr.

Butler, Margaret R., B.A., Ph.D.

Tor (on leave) Demr.

Allen, C. R. K., B.Sc. Stud. Asst.

Langstroth, Muriel A., B.A.

Stud. Asst.

### *Chemistry*

Nickerson, C. B., A.M. Clark Prof.

King, H. S., A.B., Ph.D. Harv.

Assoc. Prof

Coffin, C. C., B.A., M.Sc., Ph.D.

McG. Assoc. Prof.

Todd, E. W., B.A.

Instr.

### *Classics*

Nichols, E. W., M.A., Ph.D. Yale

McLeod Prof.

Griffin, A. K., M.A. Tor. and Ox.,

Ph.D. Tor. (on leave)

Assoc. Prof. (K.).

Logan, J. W., M.A.

Lectr.

Pearson, L., B.A. Ox.

Lectr.

Crouse, G. H., B.A.

Stud. Asst.

### *Commerce*

MacDonald, J. M., B.A. St. F. X.,

M.B.A. Harv. Prof.

Ells, R. W., A.B., M.B.A. Harv.

Lectr.

### *Dentistry, v. infra*

### *Economics and Sociology*

Maxwell, W. R., B.A., M.A. Harv.

Assoc. Prof. (K.).

Prince, S. H., M.A. Tor., Ph.D.

Col. Asst. Prof. (K.).

### *Education*

Smith, C. W., B.A. Mo., LL.B.

Col., Ed. M., Ed.D. Harv.

Prof.

### *Engineering, Civil*

Copp, W. P., B.A. Ac., B.Sc. McG.,

M.E.I.C. Prof.

Theakston, H. R., B.Sc. (Mining),

Nova Scotia Tech. Coll. Prof.

### *English Lang. and Lit.*

MacMechan, A., B.A., LL.D. Tor.,

Ph.D. J. Hopk., F.R.S.C. (on

leave) Prof.

Bennet, C. L., M.A. Camb., A.M.

Harv. Prof.

(K.) = Univ. of King's College.



Martin, J. B., M.A. Tor., Ph.D.  
Harv. Asst. Prof. (K)  
Jewitt, A. R., B.A. Dal and Ox.  
Lectr (K.).  
Stairs, Freda, B.A. Stud Asst.  
Page, A Madeleine, M.A.  
Stud Asst.

*Fine Arts*

Falconer, J W., M.A. Edin., D D.  
Knox Lectr.

*Fisheries*

Leim, A. H., B.A., Ph.D. Tor.  
(Zool.) Assoc Prot.  
Beatty, S. A., M.A. Qu.'s, Ph D.  
McG.

((Bio-Chem.) Assoc. Prof.  
Hess, E., M.A. Queen's  
(Bacteriol) Asst. Prof.

*Geology*

Douglas, G V., M.C., B.Sc. McG.,  
M.Sc., F.G.S. Asst Prof.

*History*

[Prof.  
Wilson, G. E., M.A. Qu., Ph.D. Harv.  
Walker, Rev. A. S., M.A. Leeds and  
Birm., B.Litt. Ox. Prof. (K).  
Harvey, D. C., M.A. Ox, B A,  
F.R.S.C. (Can. Hist.) Lectr.

*Law, v. infra**Mathematics*

Macneill, M., M.A. Harv. Prof.  
Adshead, J. G., B.A. Camb.  
Asst. Prof. (K).  
Walmsley, C., M.A. Camb.  
Asst. Prof.

*Mathematical Physics*

Henderson, G. H., Ph.D. Camb.,  
M.A., F.R.S.C. Prof. (K).

*Medicine and Surgery, v. infra**Modern Languages*

Gautheron, René, Ag. des L. Paris  
(on leave) McLeod Prof.  
Mercer, C. H., M.A., B.Com.  
Manc. Assoc. Prof.  
Mason, E Mabel, M.A., Ph.D.  
(French) Asst Prof. (K).

*Music*

Dean, H. Lectr.  
McKinley, C. Examiner.

*Philosophy*

[Munro Prof.  
Stewart, H. L., M.A. N.U.I. and  
Ox., Ph D. N.U.I., F.R.S.C.

*Physics*

Bronson, H. L., B.A., Ph.D. Yale,  
F.R.S.C. Munro Prof.  
Johnstone, J. H. L., Ph.D. Yale,  
M.Sc. Prof.  
Weir, H. A., B.A.  
MacGregor Fellow.

Dockerty, S. M., B.A. Stud. Asst.  
Turnbull, L. G. Stud. Asst.

*Physiology and Histology*

Cruickshank, E. W. H., M.D.  
Aber., D.Sc. Lond., Ph.D.  
Camb., M.R.C.P. Lond. Prof.  
Startup, C. W., B.Sc. Aber.  
Asst. Prof.

Bean, R. J., M.S. N.H.  
(Hist. & Embry.) Prof.  
Bean, Elizabeth S., B.A. Cinn.,  
M.A. Wis., Ph.D. Wis.  
(Hist. & Embry.) Instr.

*Political Science*

MacKay, R. A., M.A. Tor., Ph.D.  
Princ. Dennis Prof.  
Kanigsberg, R. A., B.A.  
Stud. Asst.

*Psychology*

Page, F. H., M.A. Tor.  
Asst. Prof. (K).

*Law*

Russell, B., M.A., D.C.L. Mt. All.,  
LL.D. Prof.  
*Bankruptcy, Torts, Sales, Agency  
and Partnership*  
MacDonald, V. C., B.A., LL.B.  
Prof.  
*Bills and Notes, Property, Cor-  
porations, Crimes*  
MacQuarrie, J. T., B.Com., LL.B.  
Lectr.

- Constitutional Law, Mortgages, Equity, Contracts*  
 Smith, S. E., M A. King's, LL.B. Munro Prof
- Equity, Property, International Law, Conflicts*  
 Read, H. E., B.A. Acad, LL M Harv., LL.B. Prof
- Evidence*  
 Carroll, Hon. W. F., B.A. St. F. X., LL B Lectr.
- Hist. Engl. Law* [Lectr.  
 Godfrey, J. W., B.C.L. Ox, B A.
- Insurance*  
 Thompson, W. E., LL.B. Lectr.  
 Jones, F. H. M., B.A., LL.B Lectr
- Practical Statutes*  
 Walker, J. A., B A. C.U.A., LL.B. Lectr.
- Procedure*  
 Rutledge, J. E., B.A, LL.B Lectr.
- Shipping* [Lectr.  
 Burchell, C. J., M.A., LL.B., K.C.  
 Smith, F. D., K.C. Lectr.
- Special Lecturers:  
 Mellish, Hon. H., B.A., LL.B. (Legal Ethics).  
 McInnes, H, LL.B., K C (Bond Mortgages).  
 Robertson, T. R., B.A, LL.B. K C. (Crown Rules).  
 Barnstead, A. S., LL B, K.C. (Incorporation and Companies)  
 Milner, F. H., K.C. (Workmen's Compensation Bd ).  
 Murray, R. H., B A., LL.B., K C. (Summary Convictions).  
 Fogo, J. G., LL.B. (Probate Practice).  
 Mitchell, Capt. W. F. (Navigation).
- Medicine**  
 (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)
- Anæsthetics*  
 Lessel, J. F., M.D., C.M. Demr.
- Muir, W. L., M D, C.M McG. Demr.
- Bacteriology, v. Pathology*  
*Bio-Chemistry*  
 Young, E. G., B.A., M.Sc. McG., Ph.D. Camb. Prof.  
 Murray, A. E., B A., M.D., C M Asst.
- MacIntosh, F. C., B.A. Stud. Asst.
- Ear, Nose, and Throat*  
 Doull, A. E., M D., C.M. McG. Asst. Prof.  
 Doull, A. E., Jr., M D., C.M. Demr.  
 Schwartz, H. W., M.D., C.M. „
- Eye, Diseases of the, etc.*  
 Mathers, R. E, M D N.Y. Prof.  
 Cunningham, A. R., B.A., M.D., C.M Asst Prof.  
 Kirkpatrick, H. W, M.D, C.M. Demr.
- Gynæcology, v. Obst.*  
*Hygiene and Public Health*  
 Grant, H. G., M.D, C.M., M.R.C.S, L R C P. Prof.  
 Forrest, W. D., B Sc., M.D., C.M. Lectr.  
 Trefry, Marjorie E. Asst.
- Materna Medica*  
 Burbidge, G. A. Lectr.
- Medical Jurispr.*  
 Woodbury, Prof F. V. (v. Dentistry) Demr.
- Medicine and Clin. Med., v. also Ped. and Skin*  
 Silver, L. M., B.A. Vind., M.B., C.M. Edin. Emer. Prof.  
 MacKenzie, K. A, M.D., C.M., F R C P. Can. Prof.  
 Corston, J. R, B.A., M.D., C.M., F.R.C.P. Can. Asst. Prof.
- Lecturers:  
 Sieniewicz, T. M., M.D., C.M.  
 Johnston, S. R., M.D., C.M.  
 Churchill, J. L., B.A Acad., M.D., C.M. McG.  
 Burns, G. R, M.D., C.M.

## Demonstrators :

MacKeen, R. A. H., M.D., C.M.  
McG.

Merritt, J. W., M.D., C.M.

Rankine, J., B.A., M.D., C.M.

Marshall, A. M., M.D., C.M.

MacLean, J. R., M.D., C.M.

MacIntosh, J. W., M.D., C.M.

Reid, J. W., Jr., M.D., C.M.,  
M.R.C.P. Lond.

*Mental Diseases*

..... Prof.

Lawlor, F. E., M.D., C.M. McG.

Demr.

Morton, A. R., M.D., C.M. Demr.

*Obst. and Dis. of Women and Children*

Atlee, H. B., M.D., C.M., F.R.C.S.  
Edin.

Prof. and Demr. in Pract.

Obstet.

Macdonald, P. A., M.D., C.M.

McG. (Practical O.)

Demr. and Chief of Clinic.

MacLellan, E. K., M.D., C.M.,  
F.R.C.S. Can.

Prof. and Demr. in Pract.

Obstet.

Colwell, W. G., M.D., C.M.

(Pr. Gynæc.) Demr.

*Pathology and Bacteriology*

Smith, R. P., M.D., Ch.B. Glas.,

D.P.H. Glas. and Edin. Prof.

MacKeen, R. A. H., M.D., C.M.

McG. Asst. Prof.

Gosse, N. H., M.D., C.M.

(Path.) Demr.

*Pediatrics and Medicine*

Carney, M. J., M.D., C.M. McG.,

B.A. Asst. Prof.

Campbell, J. G. D., M.D., C.M.

(Ped.) Demr.

Wiswell, G. B., M.D., C.M.

(Ped.) Demr.

*Pharmacology*

Dreyer, N. B., B.A. Cape, M.A.

Ox., M.R.C.S. Eng., L.R.C.P.

Lond. Prof.

*Radiology* [Demr.

Johnston, S. R., M.D., C.M.

*Urology and Dermatology*

Mack, F. G., M.B. Tor., B.A.,

F.R.C.S. Can. Asst. Prof.

*Surgery and Clin. Surg.*

Murphy, G. H., M.D., C.M.,

F.R.C.S. Can. Prof.

McDonald, H. K., M.D., C.M.

McG., F.R.C.S. Can. Prof.

Weatherbe, P., M.B., Ch.B. Edin.

Demr.

McDougall, J. G., M.D., C.M.

McG., F.R.C.S. Can. Prof.

Curry, W. A., M.D., C.M., F.R.C.S.

Eng. Asst. Prof.

## Demonstrators :

Burns, M. G., B.A., M.D., C.M.

Gosse, N. H., M.D., C.M.

Kinley, C. E., M.D., C.M.

O'Brien, H. D., B.A., M.D., C.M.

MacDonald, D. J., M.D., C.M. McG.

Acker, T. B., M.D., C.M.

Acker, J. C., M.D., C.M. McG.

Mader, V. O., M.D., C.M. McG.

Murphy, A. L., M.D., C.M.

## Dentistry

Bagnall, J. S., D.D.S. Prof.

*D. Anatomy*

Ritchie, S. G., B.A. N. Brun.,

D.M.D., T.D.C. Prof.

*Crown and Bridge Work, etc.*

Oxner, W. C., D.D.S., B.C.D.S.

Prof.

Faulkner, A. W., D.D.S. Lectr.

Dawson, W. G., D.D.S. Demr.

*Drawing, Modelling, and Metal-craft*

Brodie, Margaret Lectr.

*Exodontia and Radiology*

Hennigar, G. R., D.D.S. Md. Lectr.

*Genl. and Oral Surg. and**Anæsth.*

Woodbury, F. V., M.D., C.M.,

L.R.C.S. and L.R.C.P. Edin.,

L.F.P.S. Glas. Prof.

*D. Jurisprudence, Ethics, and**Economics*

Crosby, H. S., D.D.S. Lectr.

<i>Hygiene, Preventive and Clinical Dentistry</i>		<i>D. Pathology and Therap.</i>	
Thomson, G. K., D.D.S., P.D.C., F.A.C.D.	Prof.	.....	Prof.
<i>Materia Medica</i>		<i>Prosthetic D.</i>	
Woodbury, K. F., D.D.S.	Lectr.	Ritchie, S. G., B.A., N.B., D.M.D., T.D.C.	Prof.
<i>Metallurgy</i>		Bagnall, J. S., D.D.S.	Prof.
Logan, G. M., D.D.S.	Demr.	Climo, C. B., D.D.S.	Lectr.
<i>Operative D.</i>		Gardner, O.	Tech.
Beckwith, W. H. H., D.D.S. Penn.	[Prof.]	<i>Pre-School Age Clinic</i>	
Chudleigh, G. A., D.D.S., B.C.D.S.	Lectr.	Haverstock, A. B., D.D.S., B.Sc. (Dent) Tor.	Demr.
<i>Orthodontia</i>		<i>Adult Clinic</i>	
Woodbury, W. W., B.Sc., D.D.S., P.D.C.	Prof.	Griffin, J. F., D.D.S.	Demr.
		Oldfield, S. K., D.D.S.	Demr.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, *v. infra.*

PINE HILL DIVINITY HALL, Halifax. Classes and exams. in Hebrew and in New Testament Greek at Pine Hill are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs. Confers the degree B.D. Principal, Rev. Clarence MacKinnon, M.A., D.D., LL.D. 3 other Profs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certs. of the Coll. enter the 1st, 2nd, or 3rd yr. of the B.A. course. Principal, S. N. Robertson, M.A., LL.D.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus. Director, H. Dean.

HALIFAX LADIES' COLLEGE. The teaching in Household Science is recognized as part of the qualification for the Univ. diploma in that department. Principal, Miss F. E. Blackwood, B.A.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Sc. Dean, G. A. Burbidge.

BIOLOGICAL BOARD OF CANADA. Classes in Fisheries. School recognized for B.Sc.

CONVENT OF THE SACRED HEART (Mother Superior, Mother Coughlin) AND MOUNT ST. VINCENT COLLEGE (Mother Superior, Mother Mary Louise). Recognized for Advanced Standing in 1st and 2nd years in Arts.

## GENERAL INFORMATION

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers. For early history, see *Yearbook* for 1929.

Appointments to the Board of Governors are made by the Govr.-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARIES. 64,000 vols. and 12,000 pamphlets. Access also to Science Library—78,400 vols. and pamphlets; Legislative—30,000 vols.; Theol.—23,500 vols. and pamphlets; Law—18,000; Citizens' Free Library—36,900 vols. and pamphlets. MUSEUMS: Ornith., Geol., Indian antiquities. Access

to Provincial Museum of Geol., Mineral., Zool. PUBLIC ARCHIVES OF NOVA SCOTIA. LABORATORIES: Chem., Physical, Geol., Engin., Biol., Bio-Chem., Physiol., Histol., Pharm., Psychol.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, Fisheries, and Engineering); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province, which covers the last 4 years of the Public School 12-year course. The compulsory subjects for admission to the B.A. and LL.B. courses are (1) English, (2) Maths., (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem.; B.Sc. and B.Com.—(1), (2), (5), two foreign languages; B.Mus.—(1), (2), (5), French, German; M.D., C.M. and D.D.S.—(1), (2), (4), Latin, Brit. Hist., Phys., Chem.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com.; 3 yrs.—LL.B., Mus.B.; 4 yrs.—D.D.S.; 5 yrs.—M.D., C.M. (taken together); 4 yrs. (following 4 yrs. practical experience)—B.Sc. (Phm.); the first 2 yrs. of the Engin. course (v. p. 369). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 8 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ.

DIPLOMA course for the Lic.Mus.—2 yrs. Music, Pharmacy, and Household Science courses are taken in the Affiliated Institutions, v. *supra*.

FEES. For tuition, for each class (ex. lab. or draughting-room or Commerce class), \$25; lab. or draughting-room class, or Commerce class, \$35. Com-pensation for tuition in Law, \$225 p.a.; Med., \$275 p.a.; Dent., \$235 p.a.

SCHOLARSHIPS FOR GRADUATES. \$250 in Polit. Sc. for study in another Univ.

LOAN AND AID FUNDS for students have been instituted. \$500 Resident Fellowship for Women; \$1500 Travelling Fellowship for Women; \$800 Fellowship in Physics.

RESIDENCE. Hostel for 100 women students, erected at a cost of \$400,000.

PUBLICATIONS. *Calendar* (July); *Annual Report* (Sept.); *Gazette*, \$1; *Dalhousie Review*, quarterly. For description and photogravures of buildings, see *Jour. Royal Arch. Inst. of Can.*, Jan.-Feb. 1926.

## THE YEAR 1931-32

GIFTS. \$23,780.10.

NEW BUILDING. New Gymnasium erected on the Dalhousie campus.

DEATHS. Dr. W. H. Hatlie (Hygiene, Pub. Health and Mental Diseases); Dr. A. W. Cogswell (Dental Path. and Therap.).

RETIREMENTS. Ernest Martin (French), D. S. McIntosh (Geol.), L. L. Dufau (French), J. H. Kent (Classics), C. A. Yeo (Classics), Constance I. MacFarlane (Bot.), H. R. Fraser (Chem.), Prof. John Stewart (Surgery), Prof. E. V. Hogan (Surgery), W. B. Almon (Obstet.), J. F. Griffin (Dentistry).

SPECIAL COURSES OF LECTURES. McGill Univ., Osgoode Hall Law School, and Dalhousie Univ. have agreed to exchange law lecturers every year, and pursuant to this arrangement Prof. F. R. Scott, McGill Univ., gave in 1932 3 lectures on certain phases of Canadian Constitutional Law. Prof. H. E. Read, of Dalhousie, gave a course at the Osgoode Hall Law School.

STUDENTS. Full-time: total, 938, including 18 graduates. Part-time: total, 77, including 0 graduates.

DEGREES OBTAINED. B.A., 67; B.Sc., 27; B.Mus., 3; M.A., 8; M.Sc., 2; B.Com., 5; LL.B., 15; M.D., C.M., 34; D.D.S., 11. Diplomas: L.Mus., 4; Engin., 13; Pharmacy, 3; Household Sci., 1.

# UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

(Associated with Dalhousie University.)

Postal Address—King's College, Halifax, N.S.

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR AND CHAIRMAN OF THE BOARD OF GOVERNORS—THE ARCH-  
BISHOP OF NOVA SCOTIA.

VICE-CHAIRMAN OF THE BOARD OF GOVERNORS—THE BISHOP OF  
FREDERICTON.

PRESIDENT—REV. ARTHUR H. MOORE, M.A., D.C.L. (Lennox), D.D.

REGISTRAR—T. H. HUNT, M.A., D.D. Vind.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M.Sc Vind.

DEAN OF WOMEN—MISS E. M. MASON, B.A. Vind, M.A. Dal.

PROFESSORS AND LECTURERS : *Divinity*—Vroom, Ven. Archdeacon  
F. W., D.C.L. Bishop's Coll, M.A., D.D. Vind., Dean of Divinity and  
Librarian; Hunt, T. H., M.A., D.D. Vind., Alexandra Prof.; Hiltz,  
R. A., M.A., D.C.L. Vind, Lectr.; the President; Rev. A. Stanley  
Walker, M.A. Leeds, B.Litt Ox

For *Classics, Economics and Sociol., English, History, Maths., Math.*  
*Physics, Mod Langs, and Psychol*, see Dalhousie Univ. staff list.

## GENERAL INFORMATION

Opened in 1789 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, the Univ. removed to Halifax and became associated with Dalhousie Univ. (see p 368). The staffs in Arts of the two Univs. are combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the Carnegie Corporation set aside \$600,000, which was handed over to King's on Dec. 31, 1928, a sum sufficient to establish the College in Halifax, *i.e.* \$400,000, having been raised, and the session of 1930-31 opened in new buildings, value \$450,000. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a

residence of six terms there, pass the required examns. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

PUBLICATION. *Calendar* (June).

### THE YEAR 1931-32

NEW DEVELOPMENTS. Library recatalogued and opened, fall 1932.

VISIT OF MEMBER OF STAFF TO ANOTHER UNIV. Prof. A. K. Griffin (Classics) spent the year 1931-32 at Harvard Univ.

HONORARY DEGREES. *D.D.*—The Very Rev. J. H. A. Holmes, M.A., B.D. (Vind.).

STUDENTS. Full-time : total, 115, including 7 graduates.

## LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—THE ROMAN CATHOLIC ARCH-BISHOP OF QUEBEC, His Excellency MGR. JEAN-MARIE RODRIGUE VILLENEUVE, D D.

RECTOR—MGR CAMILLE ROY, P.A., M A , D.Litt., Superior of Quebec Seminary.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof ARTHUR MAHEUX, M. ès A., L. ès L. Paris, D.D.

### TEACHING STAFF

#### *Accounting*

Larue, A.	Asst. Prof.
Côté, L.	Asst. Prof.

#### *Agriculture*

Asst. Profs. :  
 Jean, F. X.  
 Gagné, Chs.  
 Bouchard, Georges  
 Sirois, Albert  
 Fortin, L. de G.  
 Godbout, A.  
 Dupuis, L.  
 Campagna, E.  
 Rodrigue, W.  
 Proulx, R.  
 Lallemand, J.  
 Scott, A.  
 Potvin, P.  
 St. Pierre, J.  
 Dupré, A.  
 Berubé, L.

#### *Anatomy, v. Med.*

#### *Apologetics*

Gagné, F., B.A., Lic.Ph., D.D.	Prof.
Paquet, Mgr. L. A., P.A., B.A., D.Phil.	Prof.
Garant, C.-O., B.A., Lic Phil., Lic.H Scrip., D.D.	Asst. Prof.

#### *Astronomy, Practical*

Smith, A., M.A. (Dir. of Quebec Observatory)	Prof.
Benoit, R., B.A., Lic.D.	Prof.

#### *Biology, v. Med.*

#### *Botany*

Robitaille, A., M A.	Prof.
Rousseau, Z, B.Ar.	Asst. Prof.

#### *Chemistry*

Fillion, Mgr. Ph. J., M. ès A.	Prof.
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#### *Chemistry, Analytical* [Prof.

Garneau, Sir G., B. ès Sc Ap., Ing Civ., Chev Lég. d'H.	
Vachon, A., M.A, Lic Ph.	Prof.

#### *Chemistry, Organic*

Gagnon, P., D. ès Sc. Paris	Asst Prof
Risi, L., D. ès Sc. Frib.	Asst. Prof.
Bois, E.*	Asst. Prof.

#### *Classics†*

Pelletier, Mgr. F., M.A. (Greek Lit.)	Prof.
Labrie, A , B.A., Lic. ès L. Paris	Prof.
Laurent, R., Agrégé ès L. Sorbonne, M.A. (Latin Lang )	Prof.
Beaudry, E.	Prof.
Charbonnier, F.	Asst. Prof.

\* Judge, High Court.

† Excluding affiliated Classical Colleges.



- Gariépy, L., B.A., Lic.Litt. Asst. Prof.  
 Bégin, E., B.A., Dipl. Ec. Norm. Sup. Asst. Prof.  
 Talbot, L., B.A., Lic.Litt. Asst. Prof.  
 Gervais, J., B.A., Lic.Litt. Asst. Prof.
- Commerce, v. Law*  
*Dentistry, v. Med.*  
*Ecclesiastical History*  
 Gignac, Mgr. J., D.D. Prof.  
 Gosselin, Mgr. A. E., M.A. Asst. Prof.
- Economics, v. Social and Polit. Econ.*  
*Elocution* [Asst. Prof.  
 Rivard, Hon. A., M.A., D. en Dr., D. ès L., K.St.Gr.\*, O.I.P.  
 Riddez, J. Asst. Prof.
- English*  
 Cannon, W., M.A. Prof.  
 Belleau, Jos., LL.L. Prof.  
 Abel, G., B.A. Asst. Prof.
- Entomology*  
 Maheux, G., M.A., Ing.For., Lic. ès Sc. Agr. Montr. Prof.
- Forestry*  
 Piché, G. C., M.A., Ing.For. Prof.  
 Bédard, A., M.A., Ing.For. Prof.  
 Roy, H., B.A., Ing.For. Prof.  
 Bourget, M. A., Ing.For. Asst. Prof.
- Forest Law*  
 Richard, L. A., D. en Dr. Prof.  
 Lussier, O., B.A., Lic.LL. Asst. Prof.
- French Lang. and Lit., v. also Modern Langs.*  
 Aubert, A., B.A. (Fr. Lang.) Prof.  
 Geoffrion, A. P., B.A., B.LL., D. ès L. (Hist. of Fr. Lang.) Prof.  
 Garnier, A. Asst. Prof.  
 Laliberté, M., M.A., L. ès L. Sorbonne (Fr. Lit.) Prof.  
 Roy, Mgr. C., L. ès L. Sorbonne (Fr. Canadian Lit.) Prof.
- Maheux, A., M.A., L. ès L. Sorbonne (Oratory) Prof.  
*Geology and Mineralogy*  
 Vachon, A., M.A., L.Phil. Prof.  
 Asst. Profs.:  
 Laverdière, W., Lic. ès Sc. Phys., M.A., D. ès Sc. Nat. Lille  
 Dufresne, A.-O., B.Sc., M.Sc. McG.  
 Faessler, C., D. ès Sc. Frib. Prof.  
*Histology, v. Med.*  
*History (General)*  
 Chapaus, Hon. T., D.L., C.St Gr., Chev. Lég. d'H. Prof.  
 Savard, G. Prof.
- History of Canada*  
 Morissette, N., B.A., L.Litt. Prof.  
*History of Catholic Church in Canada*  
 Gosselin, Mgr. A. E., M.A. Prof.
- Law, v. infra*  
*Mathematics*  
 Tremblay, A., M.A. Prof.  
 Pouliot, A., B.Sc.Ap., Lic. ès Sc. Paris, M.A. Prof.  
 Hamel, Ed., B.A., B. ès Sc.Ap. Prof.
- Bergeron, O., M. ès A. Prof.  
 Morissette, C., B.A. Prof.  
 Boutin, F., B.A. Asst. Prof.  
 Laliberté, L., B.A. Asst. Prof.  
 Savary, R., B.Arp, Ing.For. Asst. Prof.
- Medicine, v. infra*  
*Modern Languages*  
 Belleau, J., B.A., LL.L. Prof.
- Music*  
 Gilbert, J. A., Mus.D. Prof.  
 Pelletier, Canon J. R. Prof.  
 Desrochers, P. C. Prof.  
 Gagnon, H. Prof.  
 Talbot, R., B.Sc. Prof.  
 Tardif, A., B.A. Prof.  
 Destroismaisons, L., B.A. Prof.  
 Bernier, A., Mus.D. Wash. Prof.  
 Letourneau, O., Prix d'Europe (1913) Prof.  
 ..... Prof.

\* Judge, High Court.

Asst. Profs :

Larochelle, E.  
Vézina, Raoul  
Roy, Berthe  
Vallières, H.  
Mercure, H.  
Gravel, L.  
St Hilaire, A.

*Pedagogy*

Roy, Mgr. C., L.L. Prof.

*Philosophy*

Lebon, Mgr. W., D.D., M.A.,  
D.Phil. Prof  
Ferland, J., B.A., Lic.Phil., D.D.  
Prof  
Déchêne, G., B.A., Lic.Ph., D.D.  
Prof.  
Robert, A., M.A., L. en Econ.  
Louv., D.D. Prof.  
Gagnon, Cyrille Asst Prof.  
Roy, M., D.Phil., D.D.  
Castonguay, L., B.A., D.D.  
Grenier, H., B.A., D.Phil., D  
Canon Law, D.D.  
Parent, A.-M., B.A., Lic.Phil.,  
D.D.

*Physics*

Benoit, R., B.A., Lic.Ph. Prof.  
Cloutier, Ls.-V., Lic.Sc. Asst. Prof.

*Physiology, v. Med.*

*Religion*

Genest, O., B. ès L. Prof.

*Social and Political Econ.*

Gregoire, E., Lic. en droit, Sc.  
Econ. et Soc., Sc. pol. et dip.  
Louv. Prof.

*Social Science*

Asst. Profs. :

Dorion, Dr. Jules  
Magnan, C.-J.  
Archambault, J. Popin  
Pelland, Léo  
Grégoire, J. E.  
L'Heureux, Eug.

Judge, High Court.

Vandry, F.  
Hamel, Oscar

*Surveying*

Joncas, P., Ing.Civ., B. ès Sc.Ap.,  
M.Can. Soc. C.E. (Building  
and S.) Prof.  
Massé, A., B.Ar., Ing.For.  
Asst. Prof.

*Theology, v. also Hist.*

Profs. :

Paquet, Mgr. L. A., V.G., D.Th.,  
M.St.T.A.  
Nadeau, E., D.Th., L. en Dr. Can.  
Gagnon, C., D.Th.  
Gignac, Mgr. J., D.Th., D. en Dr.  
Can., Rome (Canon Law)  
Vandry, F., D.D., Lic.Ph., B.A.  
Garant, C. O., L.Ph., D.Th. (Holy  
Script and Orient. Langs.).

Asst Profs. :

Lemieux, E., B.A., Lic.Phil., D.D.  
Roy, M., B.A., D.D., D.Phil.  
Bureau, A., B.A., Lic.Phil., D.D.,  
D. Canon Law.  
Pelletier, A., B.A., Lic.Phil., D.D.  
Gagné, F., B.A., Lic.Phil., D.D.

*Zoology*

Robitaille, A., M.A. Prof.

Law

v. also Accounting

*Admin., Const., and Munic. L.*

Sirois, J., D. en Dr. Prof.  
Duval, A., Lic.LL. Asst. Prof.

*Civil L.*

Dorion, Hon. C. E. Prof.  
Roy, F., D. en Dr., Magistrate,  
O.I.P. Prof.  
Gagné, J.-A., LL.L., K.C.

Asst. Prof.

*Commerc. and Marit. Law*

Bernier, Hon. L. M. J. A., D. en  
Dr.\* Prof.  
Marchand, Hon. A., D. en Dr.†  
Prof.  
Gravel, J., D. en Dr., K.C. Prof.

† Judge, Court of Appeal.

<i>Criminal Law</i>	Gaudreau, S., D.Dent.	Prof.
Prof. :	Hamel, P., D.Dent.	Prof
Fitzpatrick, Rt. Hon. Sir Chas.,		
G.C.M.G., D. en Dr., P.C.C.	<i>Dermatology</i>	
Taschereau, R., B. ès L., LL.L.	Mayrand, R., M.D.	Prof.
Asst. Prof.		
<i>History of Law</i>	<i>Gynæcology and Gyn. Clin.</i>	
St. Laurent, L., D. en Dr., K.C.	Grondin, S., M.D., Chev. lég. d'H.,	
Prof.	O.I.P.	Prof.
Pelland, Léo, LL.L., Lic.Ph.	Caouette, J., M.D.	Prof.
Asst. Prof.	Gagnon, F., M.D.	Prof.
<i>International Law</i>	<i>Hygiene, Public</i>	
.....	Paquin, R., M.D.	Prof.
<i>Municipal Law</i> [Prof.	Couillard, E., M.D.	Prof.
Prévost, J. A., D. en Dr., K.C.	<i>Laryngology</i>	
<i>Procedure, Civil</i>	Fiset, L. J. N., M.D.	Prof.
Pouliot, A., D. en Dr.	Dussault, N. A., M.D. (Rhino-Lar.,	
Baillargeon, E., D. en Dr., K.C.	etc.)	Prof.
Prof	Vaillancourt, J., M.D.	Asst. Prof.
Morand, Lucien, B.A., LL.L.	<i>Legal Medicine</i>	
Asst. Prof.	Desrochers, S., M.D.	Prof.
<i>Roman L.</i>	<i>Materia Medica</i>	
Desrivères, E., D. en Dr.	Faucher, P. V., M.D.	Prof.
Prof.	Roy, S., M.D.	Prof.
<i>Medicine</i>	<i>Medical Ethics</i>	
<i>Anatomy, Descriptive</i>	.....	Prof.
Garneau, P.	<i>Medicine, Clinical</i>	
<i>Anatomy, Pathological</i>	Guérard, J., M.D.	Prof.
Vallée, A., M.D. (Dir. of P.A. and	Rousseau, A., M.D.	Prof.
Bact. Labs.)	Racine, G., M.D.	Prof.
Morin, E., M.D.	Caron, S., M.D.	Prof.
Asst. Prof.	Jobin, J.-B., M.D.	Asst. Prof.
<i>Anat. and Oper. Med., Pract.</i>	<i>Mental Diseases</i>	
Pâquet, A., M.D.	Brousseau, A., M.D. Paris	Prof.
<i>Biology</i>	<i>Ophthalmology</i>	
Paulin, A., M.D. Paris	Pagé, J. D., M.D.	Prof.
Potvin, R., M.D.		
Bois, E., Doc. ès Sci. Friib.	<i>Ophth. and Ot. Clin., etc.</i>	
Déry, A., D.Dent.	Coote, P., M.D.	Prof.
Asst. Prof.	Dussault, N. A., M.D.	Prof.
<i>Contagious Diseases, Clinics</i>	Pichette, H., M.D.	Prof.
Martin, V., M.D.		
<i>Dentistry</i>	<i>Pathology, Ext. and Clin. Surg.</i>	
Langlois, A., D.Dent.	Dagneau, C., M.D., O.I.P.	Prof.

<i>Pathology, General</i>		<i>Physiotherapy</i>	
Berger, L., M.D. Stras.	Prof.	Mayrand, R., M.D.	Prof.
Desmeules, R., M.D.	Asst. Prof.	Perron, E., M.D.	Prof.
<i>Pathology, Internal</i>		<i>Surgery, Clinical</i>	
Fortier, E., M.D.	Prof.	Dagneau, C., M.D.	Prof.
<i>Pediatrics, etc.</i>		Vézina, C., M.D.	Prof.
Jobin, A., M.D.	Prof.	Roy, S., M.D.	Prof.
<i>Pharmacy</i>		Paquet, A., M.D.	Prof.
Marquis, A., Lic Pharm	Prof.	Garneau, P., M.D.	Asst. Prof.
Demers, U., Lic Pharm.		<i>Therapeutics</i>	
	Asst. Prof.	Lessard, A., M.D.	Prof.
<i>Physiol. and Chem.</i>		<i>Tuberculosis, Clinics</i>	
Blanchet, R.	Asst. Prof.	Desmeules, R., M.D.	Asst. Prof.

## ANNEXED OR AFFILIATED INSTITUTIONS

["Annexion" implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. "Affiliation" or—in the case of an institution outside the province of Quebec—"agrégation" involves control by the Univ. of examinations.]

ÉCOLE D'ARPEMENT ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and affiliated to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 15 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCAITIÈRE, affiliated. Director, Prof. H. Bois. 21 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Affiliated to the Faculty of Arts. Director, A. Vachon. 18 other Profs.

ÉCOLE NORMALE SUPÉRIEURE. Affiliated to the Faculty of Arts. Director, Mgr. Camille Roy. Section of Letters, 6 Profs.; Section of Sciences, 8 Profs.

ÉCOLE DE MUSIQUE. Affiliated to the Faculty of Arts with a special Dept. for Sacred Music, and 50 affiliated Schools. Director, R. Talbot. 14 other Profs.

ÉCOLE DE PHARMACIE. Affiliated to the Faculty of Arts. Director, J. A. Marquis. 5 other Profs.

ÉCOLES DE GARDE-MALADES. 8 Schools affiliated.

INSTITUT SUPÉRIEUR DE PHILOSOPHIE. Director, Mgr. L. A. Paquet, D.D. Rom., and 5 other Profs.

ÉCOLE DE SCIENCES SOCIALES. Director, A. Robert, 10 other Profs.

ENSEIGNEMENT MOYEN COMMERCIAL (1 Sch. affil.); ENSEIGNEMENT CLASSIQUE (1 Sch. for Girls affil.; Sch. for Boys: 13 affil. and 2 agrégées). Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for the Baccalauréat ès Arts (B.A.).

ENSEIGNEMENT MOYEN GÉNÉRAL (*High School*), 1 School affiliated.

ENSEIGNEMENT SPÉCIAL DU COMMERCE. 1 School affiliated.

ENSEIGNEMENT PÉDAGOGIQUE. 2 Schools affiliated.

ENSEIGNEMENT PRIMAIRE. 64 Schools affiliated.

## GENERAL INFORMATION

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province, except those of the ecclesiastical province of Montreal. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, General, 200,762; others, 275,586 vols. MUSEUMS: Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. LABORATORIES: Chem., Phys., Bact., Biol., Physiol., Anat., Pathol., Clinic, Physio-pathol., Bio-Chem., Botany, Mineral., Geology, Optic.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers annexed), Theology, Law, Medicine.

DEGREES AND DIPLOMAS. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine, or applied science. It is obtained before he leaves the affiliated Institute, Seminary, or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B. ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc. The course for the Licence covers 3 yrs. in Philos. (L. en Ph.); 2 yrs. in Letters (L. ès L.); 3 yrs. in Sciences (M.A.); 3 yrs. in Law (L. en Dr.), 4 yrs. in Theol. (L. en Th.). To obtain the D. en Ph. or D. en Dr. or D.Litt., it is necessary to support successfully in public a thesis and propositions as in French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns. for the Dipl. of Hygéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry and in Surveying implies 3 yrs.' study in the Sch. of Surveying and Forestry.

The École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A.

FEES for tuition, \$100 to \$185 p.a., with an extra charge for students other than Canadian.

SCHOLARSHIP OPEN TO GRADUATES. \$400 p.a. for 2 years.

PUBLICATIONS. *Annuaire* (July), *Le Canada Français* (Literary Review), *L'Enseignement secondaire* (Pedagogic Review), *Le Bulletin médical*, *Le Bulletin*

*de la Société de Géographie, Le Naturaliste Canadien.* Students' weekly paper, *Le Bérêt* (Oct. to May).

## THE YEAR 1931-32

**BENEFACTIONS** Hon. Jacob Nicol, a fellowship in Law. Rev. Canon Scott, a collection of books and of engravings.

**NEW BUILDINGS.** One for the following: Superior Normal School, School of Law, Anatomy, Biology.

**NEW DEPARTMENTS.** Sacred Music, Social Sciences, Institut for Canon Law.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES AND OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** Doctor Georges Laires (Paris).

**RETIREMENTS.** Hon. Judge A. Lachance, Dr. A. Marois, Hon. Judge A. Rivard.

**DEATHS.** Dr. A. Simard, O. Roy, J. E. Grandbois, C. N. Gariépy.

**HONORARY DEGREES CONFERRED** (with names of recipients). *LL.D.*—Right Hon. His Exc. Lord Bessborough, Governor-General. *Litt.D.*—Lorne Pierce (Toronto). *D.Agr.*—Abbé Honorius Bois, Ste. Anne de la Pocatière.

**STUDENTS.** Full-time, 13,860. Part-time, 721.

**DEGREES.** (*Secondary*): High School (matricn.), 17 girls, 479 boys. Coll. of Arts: B.Litt., 24; B.Sc., 26; B.A., 189. Commerce, 83. Music, 39. Nursing, 49. Mod. Langs., 6. Pedagogy, 9.

(*Superior*): *Theol.*, Bacc., 2; Lic., 8; Doct., 8. *Canon Law*, Bacc., 3. *Law*, Bacc., 3; Lic., 15; Doct. Hon., 1. *Med.*, Bacc., 29; Doct., 50. *Surveying*, Bacc., 7. *Forestry*, Bacc., 7. *Agric.*, Bacc., 15; Doct. Hon., 1. *Letters*, Lic., 2. *Sciences*, Lic., 3. *Chem.*, Lic., 2. *Philos.*, Lic., 11.

# McGILL UNIVERSITY, MONTREAL

VISITOR—THE GOVERNOR-GENERAL OF CANADA.

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—  
E. W. BEATTY, B.A., LL D., K.C.

PRINCIPAL AND VICE-CHANCELLOR—SIR ARTHUR W. CURRIE, G C.M.G.,  
K.C.B., LL.D.

SECRETARY AND BURSAR—A. P. S. GLASSCO, B.Sc.

REGISTRAR—T. H. MATTHEWS, M.A.

LIBRARIAN—G. R. LOMER, M.A., Ph D.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A. BULKELEY-EVANS,  
C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

## INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from  
Montreal), including School of Agric., School for Teachers, and School of  
Household Science.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.).  
Warden—Mrs. Walter Vaughan, M.A.

## PROFESSORS, LECTURERS, ETC.

### *Accountancy*

Thompson, R. R., M.C., V.D..

A.C.A. (Engl. & Wales), C.A.  
Can. Prof.

Gowan, A. A., C.A. Lectr.

Hunter, G., C.A. Lectr.

Jones, T. P., C A Lectr.

Patton, D. R., B Com., C.A. Lectr.

Seymour, P. F., C A Lectr.

Buzzell, L. N., B Com Lectr.

Clapperton H. D., C.A. Lectr.

### *Agriculture, v. infra*

### *Anatomy*

Whitnall, S. E., M.A., D.M., B.Ch.  
Ox., M.R.C.S., L.R.C.P.

Reford Prof.

Beattie, J., D.Sc. Belf., M.D.

Assoc. Prof.

MacDermot, H. E., M.D. Lectr.

11 Demrs.

### *Architecture*

Traquair, R., M.A., (Hon.)  
F.R.I.B.A. Macdonald Prof.

Nobbs, P. E., M.A. Edin.,  
F.R.I.B.A., A R C A

(Design) Prof.

Chambers, F. P., M.A Camb.

Asst. Prof.

Dyonnet, E. Spl. Lectr.

Turner, P. J., F.R.I.B.A. (Constrn.,  
etc.) Spl. Lectr.

Thomson, L. R., B.A Sc.

Spl. Lectr.

### *Bio-Chemistry*

Collip, J. B., M.A., Ph D. Tor.,  
M.D., D Sc. Alb., F.R.S.C.

Prof.

Thomson, D. L., B.Sc., M A  
Aberd., Ph.D. Camb.

Asst. Prof.

Mason, E. H., Ph.B., M.D. Lectr.

Rabinowitch, I. M., M.D.  
(also Med.) Lectr.

3 Demrs., 1 Res. Fellow

*Botany* [Macdonald Prof.  
Lloyd, F. E., M.A. Princeton,  
F.R.S.C., F.L.S.  
Scarth, G. W., M.A. Prof.  
Huskins, C. L., B.S.A., M.Sc. Alb.,  
Ph.D. Lond. Assoc. Prof.  
Gibbs, R. D., B.Sc. Lond., M.Sc.  
Lectr

2 Demrs.

*Chemistry*  
Johnson, F. M. G., Ph.D. Bres.,  
M.Sc., F.I.C., F.R.S.C.  
(Inorg. C.) Prof.  
Evans, N. N., M.A.Sc. Prof.  
Maass, O., M.Sc., Ph.D. Harv.,  
F.R.S.C. (Phys. C.) Prof.  
Hibbert, H., D.Sc. Manc., Ph.D.  
Leip.

(Indust. and Cellulose C.)  
E. B. Eddy Prof.  
Hatcher, H. W., M.Sc., Ph.D.  
Assoc. Prof.

Asst. Profs :  
Allen, C. F. H., Ph.D. Harv.  
Steacie, E. W. R., Ph.D.  
Mennie, J. H., M.A. Br. Col., B.Sc.  
Ox., Ph.D.  
Barnes, W. H., M.Sc., Ph.D.  
Lectr.  
Phillips, J. B., M.Sc., Ph.D.  
Lectr.

13 Demrs., 6 Graduate Assts.

*Chinese Studies*  
Kiang Kang-hu, Ph.D. Prof.

*Classics*  
Woodhead, W. D., B.A. Ox., M.A.  
Alberta, Ph.D. Chic.

Mills Prof.  
Carruthers, C. H., B.A. Ox., M.A.  
Tor., Ph.D. Chic.

(Class. Philol.) Prof.  
Thompson, A. M., M.A. Qu., Ph.D.  
Harv. Assoc. Prof.

McCullagh, P. F., M.A. Lectr.  
Counsell, E. M., B.A. Ox. Lectr.

*Commerce*, v. also Acctcy., Law  
Sugars, R. M., M.A., T.C.D.  
Dir. of School; Assoc.  
Prof. (Spanish).

*Dentistry*, v. *infra*

*Economics*

Leacock, S., B.A. Tor., Ph.D.  
Chic., Litt. D. Brown and Tor.,  
LL.D. Qu. Dow Prof.  
Hemmen, J. C., M.A., Ph.D.  
Harv. Angus Prof.  
Day, J. P., B.A., B.Sc. Lond.,  
D.Phil. St. And. Prof.  
Culliton, J., M.A. Asst. Prof.  
Forsey, E., B.A. Ox., M.A. Lectr.  
Goldenberg, H. C., M.A., B.C.L.  
Sessional Lectr.

7 Graduate Fellows.

*Education*

Clarke, F., M.A. Ox. Prof.  
Laird, S., M.A., B.Phil.  
Dean, Sch. for Teachers,  
and Prof.  
Brunt, H. D., M.A., Ph.D.  
(English) Assoc. Prof.  
Lockhart, A. R. B., M.A. Col.

Lectr.  
Musgrove, R. B., F.R.C.O. Lectr.  
Brownrigg, Novah E., B.A. Lectr.  
Ramsay, Violet B. Lectr.  
Irvine, E. C., M.A., B.Pæd. Lectr.  
Bellis, D. Maud Lectr.  
Seiveright, Dorothy J., M.A. Lectr.  
Hayward, Myrtle A., B.Sc. Lectr.

Department and School of  
Physical Education :  
Lamb, A. S., M.D., B.P.E.

Director.  
Herriott, Jesse, B.Sc., M.A. Col.  
Director for Women.

Harvey, F. W., B.A., M.D.  
Univ. Med. Off.

Childs, Mary, B.A., M.D.  
Univ. Med. Off. (Women).  
Forbes, D. S., M.C., B.Sc., B.Arch.  
Athletic Manager.

5 Assts.

*Engineering*, v. *infra*

*English Lang. and Lit.*

Macmillan, Hon. C., M.A. McG.  
and Harv., Ph.D. Harv.  
Molson Prof.



Latham, G. W., B.A. Harv.

Assoc. Prof

Files, H. G., M.A., Ph D. Harv.

Assoc. Prof.

Noad, A. S., M.A. Asst. Prof.

MacKenzie, Mary E, B A. Dal.

Lectr.

Gray, Leona, M A.

Lectr.

George, A. R., B.A, B D. Lectr

9 Assts.

### French

[Prof.

du Roure, R., Agrégé l'U. de France

Villard, P., M A, M.D, D.D.,

O.I.P.

Assoc. Prof.

Lemaitre, G E., D S L. Assoc Prof

Furness, Lucie T, L. ès L.

Asst. Prof.

d'Hauterive, L., B. ès L and Ph

Paris, M.A.

Asst. Prof.

Henry, Mlle. C. Lectr.

### Geology

O'Neill, J J., M Sc., Ph D Yale,

F R S C.

Dawson Prof

Clark, T. H., Ph.D. Harv. (Pa-

laeont)

Logan Prof

Gill, J. E., Ph D. Asst. Prof.

Osborne, F F., M A.Sc. Brit. Col.,

Ph.D. Yale

Asst. Prof

4 Assts

### German

[Prof.

Walter, H., M.A. Edin., Ph.D. Mun

Graff, W. L., Ph.D. Assoc. Prof.

Meyer, Bertha, M.A. Lectr.

### Hebrew and Semitic Langs.

Brockwell, C. A. B., M.A. Prof.

Berger, J., M A. Lectr.

Scott, R. B. Y., M.A., Ph D. Lectr.

### Hellenistic Jewish Lit.

Abbott-Smith, G., M.A., D.D.,

D.C.L.

Prof.

### Histology and Embryology

Simpson, J C., B.Sc., LL D. Prof.

Rawlinson, H. E, M.Sc., M D.

Lectr.

Fisk, W. M., M.D. (Histol) Lectr.

Bowie, D. J., B Sc., M.A., Ph.D.

Tor.

Lectr.

x Demr.

### History

.....

Kingsford Prof.

Fryer, C E, M A., Ph.D. Harv.

Prof.

Adair, E. R., B.A. Lond., M.A.

Camb.

Assoc. Prof

MacDermot, T. W. L., M.A. Ox.

Asst. Prof.

3 Assts.

### Household Science

Philp, Miss B., Hd. of School of

H.S in Macdonald Coll.

9 Instrs

### Law, v. infra

### Library School

Lomer, G. R., M.A., Ph.D.

Director and Prof.

Carter, Mary D., Ph.B., B.L.S.

Asst. Director and Prof.

3 Assts.

### Logic, v. Philos.

### Mathematics

MacLean, N. B., D.S.O., M.A.

Tor, Ph.D. Chic.

(Appl. M.) Prof.

Sullivan, C T., B A Dal., Ph.D.

Chic., D.Sc., F.R.S.C. (Pure

M.)

Redpath Prof.

Gillson, A. H. S., M.A. Camb.

(also Phys.) Assoc. Prof.

Williams, W. L. G., M.A. Ox.,

Ph.D. Chic.

Assoc. Prof.

Tate, H., B Sc. N.U.I., M A. Dub.

Assoc. Prof.

Dodd, G. J., M.Sc. (M. and Civ.

Engin.)

Assoc. Prof.

Wood, F. M., B.Sc., M.A.

Asst. Prof.

Howat, D., M.A. Asst. Prof.

Pall, G., M.A. Tor., Ph D. Chic.

Lectr.

Cooper, L. O'T., B.Sc. Lectr.

Ross, W. B, M.Sc. Lectr.

### Medicine, v. infra

### Mineralogy

[Prof.

Graham, R. P. D., B.A. Ox., D.Sc.

### Mining, v. Engineering

*Music*

Clarke, Douglas, M.A., Mus.B.  
 Camb., F.R.C.O.  
 Dir. of Conservatorium  
 26 Assts.

*Nursing*

Harmer, Bertha, R.N., M.A.  
 Directress of School.  
 16 Lectrs. and Instrs. (Part-time).

*Philosophy*

[Macdonald Prof.  
 Hendel, Jr., C. W., Litt B, Ph D.  
 Princet. (Moral Ph.)  
 Mackay, I. A., M.A, LL.B. Dal,  
 Ph.D. Corn, LL.D. Qu.  
 (Log. & Metaph) Froth-  
 ingham Prof.

*Physics*

[Macdonald Prof.  
 Eve, A. S, C.B.E., M.A. Camb.,  
 D Sc., F R S.  
 King, L. V., M.A. Camb., D.Sc.,  
 F.R.S. Macdonald Prof.  
 Shaw, A. N., B.A. Camb, D.Sc.,  
 F R.S.C. Prof.  
 Keys, D. A, M.A. Tor., Ph.D.  
 Camb. and Harv, F.R S.C.

Foster, J. S., Ph D. Prof.  
 Reilley, H. E., B.A., M.Sc. Prof.

Watson, W. H., M.A, Ph.D. Camb.  
 Assoc. Prof.  
 Asst. Prof.

Douglas, A. V., M.B.E., M.Sc.,  
 Ph.D., F R A.S.

(Astro-Phys) Lectr.  
 Watson, H. G. I., M.Sc., Ph D.  
 6 Demrs. [Lectr.

*Physiology*

Tait, J., M D., D.Sc., F.R.S.C.  
 Drake Prof.  
 Babkin, B. P., M D. St. Pet., D.Sc.  
 Lond., F R S.C

Research Prof.  
 Giblin, N., M.C., B.A. Tas., M.B.,  
 Ch.B. Ed. Asst. Prof.  
 Dworkin, S., M.D. Lectr.  
 2 Demrs.

*Psychology*

Tait, W. D., B.A. Dal, M.A.,  
 Ph.D. Harv. Prof.  
 Kellogg, C. E., B.A Bowdoin,  
 M.A, Ph.D. Harv.

Assoc. Prof.

*Psychology, Abnormal*

Bridges, J. W., A.M., Ph.D. Prof.  
 Bridges, Katharine, B.Sc. Manc,  
 M.A. Tor. Asst Prof.

Morton, N. W., M.A. Lectr.  
 1 Asst.

*Sociology*

Dawson, C. A., Ph.D. Prof.  
 Hughes, Everett C., B.A., Ph.D.  
 Chic. Asst Prof.

3 Assts.

*Spanish, v. Commerce**Zoology*

[Strathcona Prof.  
 Fantham, H. B., M.A, D Sc.  
 Berrill, N. J., D.Sc., Ph.D. Lond.

Assoc. Prof.

Wynne-Edwards, V. C, M.A. Ox.  
 Asst. Prof.

Henderson, Jean, M.Sc. Lectr.  
 Taylor, B. W., B.Sc. Lectr.  
 2 Demrs.

Agriculture, School of, in  
 Macdonald Coll.

*Agricultural Chemistry*

Snell, J F., B.A, Ph.D Corn. Prof.  
 McCarthy, J. B., B.A., D.Sc.  
 Asst. Prof.

McKibbin, R. R., Ph.D.  
 Asst. Prof.

*Agricultural Economics*

Lattimer, J. E., B.S.A., M Sc,  
 Ph.D. Wisc. Prof.

*Agricultural Engineering*

Heimpel, L. G., M S. Asst. Prof.  
 1 Asst.

*Agronomy*

Summerby, R., M S.A. Prof.  
 Lods, E. A., M.S.A. Asst. Prof.  
 Raymond, L. C., M.S. Wisc.

Asst. Prof.

Bird, J. N., M.A. Tor., M.S.A.  
 Lectr.

*Animal Husbandry*

Barton, G. S. H., B.S.A. Tor.,  
D.Sc. A. Lav. Dean and Prof.  
Ness, A. R., B.S.A. Asst. Prof.  
Crampton, Earle W., M.S., B.S.A.  
Asst. Prof.  
Hamilton, L. H., M.S. Lectr.

*Animal Pathology* [Prof.]

Conklin, R. L., D.V.M., M.Sc.

*Bacteriology* [Asst. Prof.]

Gray, P. H. H., M.A. Ox.  
2 Assts.

*English* [Assoc. Prof.]

Brunt, H. D., B.A., Ph.D.  
Hodgins, S. R. N., B.S.A., M.A.  
(and Journalism) Asst. Prof.

*Entomology*

Brittain, W. H., M.S. (Agr.), Ph.D.  
Corn. Prof.  
Cameron, T. W. M., M.A., Ph.D.,  
D.Sc., M.R.C.V.S.

Research Prof

Du Porte, E. M., Ph.D. Asst. Prof  
Whitehead, W. E., M.Sc. Lectr.

*Horticulture*

Bunting, T. G., B.S.A. Prof.  
Murray, H. R., M.Sc. Asst. Prof.  
Webster, J. L., B.S.A. Lectr.  
1 Asst.

*Physics*

Rowles, W., M.Sc., Ph.D.  
Asst. Prof.  
Froman, D. K., M.Sc., Ph.D. Lectr.  
Rowles, M. Laura, M.Sc., Ph.D.  
Lectr.

*Plant Pathology*

Brittain, W. H., M.S. (Agr.), Ph.D.  
Corn. Prof.  
Coulson, J. G., M.A. Asst. Prof.  
Suit, R. F., Ph.D. Asst. Prof.  
Newton, Dorothy E., M.Sc., Ph.D.  
Lectr.

2 Assts

*Poultry*

Maw, W. A., M.S.A. Asst. Prof.  
Bemont, L. H., B.Sc. Lectr.  
Maw, A. J. G., M.S. Lectr.

*Engineering**Accountancy*

Thompson, Prof. R. R. Prof.

*Civil Engineering and Applied Mech*

Brown, E., M.Sc., M.Eng.  
Dean and Prof.

..... Prof.

Jamieson, R. E., M.Sc. Prof.

Dodd, G. J., M.Sc. Assoc. Prof.

Wood, F. M., M.A., B.Sc.

Asst. Prof.

Weir, J., B.Sc. Asst. Prof.

Cooper, L. O'T., B.Sc. Lectr.

2 Assts.

*Electrical Engineering* [Prof.]

Christie, C. V., M.A. Dal., B.Sc.

Wallace, G. A., M.Sc. Assoc. Prof.

Burr, E. G., B.Sc. Asst. Prof.

Schippel, W. H., B.Sc. Lectr.

Howes, F. S., Ph.D. Lond. Lectr.

1 Demr.

*Freehand Draw. & Descr. Geom.*

Armstrong, H. F., M.A. Prof.  
4 Demrs.

*Highway and Municipal E.*

French, R. de L., B.Sc. Prof.

*Law, Engineering*

Weldon, J. W., B.A., LL.B. Dal.,  
K.C. Lectr.

*Mechanical Engineering*

McKergow, C. M., M.Sc. Prof.

Roberts, A. R., M.Sc. Prof.

Coote, J. A., B.Sc. Asst. Prof.

Patten, R. H., B.Sc. Asst. Prof.

McCurdy, L. R., M.Sc. Lectr.

1 Asst.

*Metallurgical Engineering*

Stansfield, A., D.Sc. Lond.,  
F.R.S.C. Birks' Prof.

Sproule, Gordon, M.Sc. Asst. Prof.

Pascoe, C. F. Spl. Lectr.

Roast, H. J., F.C.S. Lectr.

1 Asst.

*Mining Engineering*

McBride, W. G., B.Sc., M.Inst M.M.

Macdonald Prof.

Bell, J. W., M.Sc. Prof.

Brown, O. N., B.Sc. Asst Prof.

3 Research Fellows.

*Surveying and Geodesy*

Kelly, A. J., B.Sc. Assoc. Prof.

Weir, James, B.Sc. Asst Prof.

## Law

*Civil Law*

Howard, Hon. Justice E. E., B.A.,

B.C.L., K.C. Prof.

Chipman, W. F., B.A., B.C.L., K.C.

Prof.

LeMesurier, C. S., B.A., B.C.L.,

K.C. Prof.

*Civil Procedure*

Surveyer, Hon. Justice E. F.,

B.A. Laval, B.C.L. Prof

Tyndale, O. S., M.A., B.C.L., K.C.

Prof

Abbott, D. C., B.C.L. Lectr.

*Commercial Law*

Bruneau, A. S., B.A., B.C.L.

Lectr.

Claxton, B., B.C.L. Lectr.

*School of Commerce*

## Lecturers :

Mathewson, J. A., B.A., B.C.L.

Nicholson, W. C., B.A., B.C.L.

Smith, A. I., B.A., B.C.L.

Wilson, K. A., B.C.L.

*Constitutional Law*

Scott, F. R., B.A. Bishops and

Ox., B.Litt. Ox., B.C.L.

Assoc Prof.

*Criminal Law*

Surveyer, Hon. Justice E. F., B.A.,

LL.M. Laval, B.C.L., F.R.S.C.

Prof.

*Ethics, Legal*

Mignault, Hon. Justice P.B., LL.D.

McG. and Lav., K.C. Prof.

*Evidence*

[Prof.

Wainwright, A., K.C., B.A., B.C.L.

*Law of Insurance*

[Lectr.

Claxton, Brooke, B.A., B.C.L.

*Internat. Law, Private*

MacDougall, G. W., B.A., B.C.L.,

K.C. Prof.

*Roman Law*

Corbett, P. E., M.A. Ox. and McG.

Dean and Gale Prof.

## Medicine

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)*Bacteriology*

Murray, E. G. D., O.B.E., M.A.

Camb., L.S.A. Prof.

Beattie, W. W., M.D., C.M. Lectr.

Smith, F., M.B., B.Ch. Lectr.

1 Demr

*Dermatology*

Burnett, P., D.S.O., M.D.,

M.R.C.S., L.R.C.P. Cln. Prof.

Burgess, J. F., M.B. Cln. Prof.

Bruere, A. A., M.D. Ed. Lectr.

3 Demrs. and Asst. Demr.

*Gynaecology and Obst.*

Fraser, J. R., M.D. Prof.

Little, H. M., B.A., M.D. Prof.

## Clinical Professors :

Goodall, J. R., O.B.E., B.A., M.D.,

D.Sc.

Duncan, J. W., M.D.

Burgess, H. C., M.D., F.R.C.S.C.

Bauld, W. A. G., D.S.O., M.D.

Lectr.

10 Demrs. and Asst. Demrs.

*History of Medicine*

Macphail, Sir A., O.B.E., B.A.,

M.D., LL.D., M.R.C.S. Prof.

*Med.*, v. also Bact., Ped.

Meakins, J. C., M.D., LL.D.,

F.R.C.P. Ed. and C., F.R.C.S.

Ed. Prof.

Martin, C. F., B.A., M.D., LL.D.

Qu. Dean and Prof.

Howard, C. P., B.A., M.D. Prof.

Hamilton, W. F., M.D., F.R.C.P.C.

Prof.

Gordon, A. H., M.D. Assoc. Prof.

## Asst. Profs. :

Peters, C. A., D.S.O., M.D.,  
M.R.C.S., L.R.C.P.

Mason, E. H., Ph.B., M.D.

Abbott, Maude E., B.A., M.D.  
Bishops, L R C.P. & S. Ed.  
(Med. Res.).

Rabinowitch, I. M., M.D., C.M.,  
D.Sc., F.R.C.P.C.

## Lecturers :

Browne, J. G., B.A., M.D.

Kaufmann, J., M.D.

Byers, J. R., M.D., L R C.P. Ed.

Lewis, D. S., M.Sc., M.D.

Moffatt, C. F., M.D.

Campbell, D. G., B.A., M.D.

MacCordick, A. H., M.D.

Brooks, E. C., M.B., Ch.B. (Radiol.)  
29 Demrs. and Asst. Demrs.

*Neurology and Neuro-Surgery*

Penfield, W. G., Litt.B. Princ.,  
M.A., B.Sc. Ox., M.D. J.  
Hopk. Prof.

Russel, C. K., B.A., M.D. Prof.

Mackay, F. H., M.D. Prof.

Cone, W. V., B.Sc., M.D. Asst. Prof.

Peterson, J. N., M.D. Lectr.

Viner, N., M.D. Lectr.

Young, A. W., M.D. Lectr.

7 Demrs. and Research Fellows

*Ophthalmology*, v. also Bact.

Byers, W. G. M., M.D., D.Sc. Prof

## Clinical Professors :

Mathewson, G. H., B.A., M.D.

Tooke, F. T., B.A., M.D.

McKee, S. H., C.M.G., B.A., M.D.

6 Demrs. and Asst. Demrs.

*Oto-Laryngology*

White, E. H., B.A., M.D. Prof.

Ballou, D., B.A., M.D., F.A.C.S.

Lectr.

Hodge, G. E., M.D. Lectr.

Rogers, J. T., M.D. Lectr.

6 Demrs. and Asst. Demrs.

*Pathology*

Oertel, H., M.D. Strathcona Prof.

Rhea, L. J., B.Sc., M.D.

Assoc. Prof.

Waugh, T. R., M.A., M.D.

Asst. Prof.

## Lecturers :

Chase, W. H., M.D.

Pritchard, J. E., M.D.

Cone, W. V., B.Sc., M.D. (Neuro-P)  
6 Asst Demrs

*Pediatrics*

Cushing, H. B., M.D. Clin. Prof.

## Lecturers :

Chandler, A. B., M.D.

Ross, S. G., D.S.O., B.A., M.D.,  
M.R.C.P.

Lindsay, L. M., M.D.

Struthers, R. R., B.A., M.D.

Goldbloom, A., B.A., M.D.

Wright, H. P., M.D.

5 Demrs and Asst. Demrs.

*Pharmacy*

..... Prof.

*Pharmacology*

Stehle, R. L., M.A. Ohio, Ph.D.

Yale Prof.

Lewis, D. S., M.Sc., M.D.

Assoc. Prof.

Melville, K. I., M.Sc., M.D. Lectr.

Bourne, W., M.D. Lectr.

Campbell, D. G., B.A., M.D. Lectr.

Harvey, F. W., M.D. Lectr.

Brown, N., M.D. Lectr.

Schroeder, H., M.D. Lectr.

3 Demrs.

*Psychiatry*

Porteous, C. A., M.D. Clin. Prof.

Slight, D., M.B., Ch.B., D.P.M.

Asst. Prof.

2 Demrs.

*Public Health and Prev. Med.*

Fleming, A. G., M.C., M.D. Tor.,

D.P.H. Prof. and Director.

Starkey, T. A., M.B., D.Ph. Lond.,

L.R.C.P., M.R.C.S., M.D.,

C.M. Strathcona Prof.

Macdonald, R. St. J., B.A., M.D.,

D.P.H. Asst. Prof.

Mitchell, W. T. B., M.B. Asst. Prof.

Pedley, F. G., B.A., M.D., D.P.H.

Asst. Prof.

Hincks, C. M., B.A., M.B. Lectr.  
2 Demrs.

### *Surgery*

Archibald, E. W., M.D., F.R.C.S.

Prof.

Bazin, A. T., D.S.O., M.D. Prof.

Eberts, E. M., M.D., L.R.C.P.,  
M.R.C.S. Prof.

Barlow, W. L., B.A., M.D.,  
F.R.C.S.C. Asst. Prof.

Keenan, C. B., D.S.O., M.D.  
Asst. Prof.

Henry, C. K. P., M.D., C.M.,  
Asst. Prof.

Patch, F. S., B.A., M.D., C.M.,  
F.R.C.S.C. (Urology) Prof.

Mackenzie, D. W., B.A., M.D.  
(Urology) Prof.

Turner, W. G., M.C., B.A., M.D.,  
M.R.C.S. (Orthop. Surg.) Prof.

Nutter, J. A., B.A., M.D., C.M.,  
F.R.C.S.C. (Orthop. Surg.)

Clin. Prof.

Scrimger, F. A. C., V.C., B.A.,  
M.D. Asst. Prof.

### Lecturers :

Howell, W. B., M.D., L.R.C.P. and  
S. Ed (Anæsthesia).

Tees, F. J., M.C., B.A., M.D.

McKenty, F. E., M.D., F.R.C.S.

Gurd, F. B., B.A., M.D.

Powell, R. E., B.A., M.D., F.R.C.S.

Ed. (Urology).

Patterson, W. J., B.A., M.D.

(Orthop. Surg.).

Ritchie, W. L., M.B. (Radiol.)

20 Demrs. and Asst. Demrs

*Therapeutics* [Assoc. Prof.  
Lewis, D. S., M.Sc., M.D.

Campbell, D. G., B.A., M.D. Lectr.

### Dentistry

#### *Clinical Dentistry*

Walsh, A. L., D.D.S. Assoc. Prof.

#### *Crown and Bridge Work*

Bushell, W. C., D.D.S. Lectr.

#### *D. Anæsthesia*

Stewart, C. C., M.D. Lectr.

#### *D. Anatomy*

Morris, C., B.S.A., D.D.S. Lectr.

#### *D. History, Ethics and Econ.*

Morris, C., B.S.A., D.D.S. Lectr.

#### *D. Jurisprudence*

Scott, F. R., B.A., B.Litt., B.C.L.  
Assoc. Prof.

#### *D. Radiography*

Ritchie, W. L., M.B. Lectr.

#### *Dental Pathol. and Therapeutics*

Henry, Fred. G., D.D.S. Prof.

#### *Operative D.*

Baxter, F. H. A., D.D.S. Prof.

Walsh, A. L., D.D.S. Assoc. Prof.

Leahy, W. G., D.D.S. Lectr.

#### *Orthodontia*

McClelland, A. W., D.D.S. Prof.

Franklin, G., D.D.S. Lectr.

Mowry, D. P., D.D.S. Lectr.

#### *Prosthetic D.*

Cameron, G. S., D.D.S. Prof.

Dohan, J. S., D.D.S. Prof.

Lowry, I. K., B.A., D.D.S. Lectr.

13 Clinical Demrs.

## AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS.  
Students who have completed the 2-yr. course in Engin. of these Univs. are  
admitted directly to the 3rd yr. in McGill Engin. courses.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to  
the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical  
Science course of CAMBRIDGE are admitted to advanced standing in the  
Faculty of Eng. Particulars obtainable from the Dean of the Faculty.

TRURO AGRICULTURAL COLLEGE. Students who have completed the

2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture at Macdonald College.

## AFFILIATED THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL. Principal, G. Abbott-Smith, M.A., D.D., D.C.L.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, F. Scott Mackenzie, M.A., Th.D., D.D.

UNITED THEOLOGICAL COLLEGE, MONTREAL. Principal, J. Smyth, B.A., D.D., LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

## GENERAL INFORMATION

Established in 1821 by Royal Charter. For early history and constitution, see *Yearbook* for 1929. Income from Investments, about \$800,000

SPECIAL FEATURES. Medicine and Engineering are particularly strong. The Graduate Fac. is growing rapidly, and a large amount of research work is being done in Chem., Geol., Physics, and the medical and biological Sciences.

LIBRARIES, 411,000 vols. (Medical, 38,000; large Ophth. Dept.) and 40,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; E. S. Wood Library of Ornithology; Blackader Library of Archit.; Blacker Library of Zool.; Travelling Library; Gest Chinese Research Library; Osler Library (8000 vols.). LABORATORIES: Chemistry, Physics, Zool., Bot., Physiol., Psych. Research, Pulp and Paper Research, Agric. Research. FARM, Live Stock and Grain, 786 acres. ASTRON. OBSERVATORY. MEDICAL MUSEUM (Strathcona), said to be the finest in America; rich collection of disturbances of heart and vascular system and aneurisms. REDPATH MUSEUM (botanical, geological, and zoological collections) and the DAVID ROSS McCORD HISTORICAL MUSEUM. HOSPLS. available for clinics, general—800 beds, several special.

FACULTIES. Arts and Science, Law, Medicine, Engin. (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music, Graduate Studies. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Library School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION. School Cert. and British Matricn. Examns. accepted. McGill Matricn. Examn. is held in London in June: particulars obtainable from W. A. Bulkeley Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. 1 yr.—B.L.S. (Library Science), post-graduate; 3 yrs.—B.C.L., Mus.Bac.; 4 yrs.—B.Com., B.A., B.Sc., B.S.A., B.H.S. (Household Science), D.D.S.; 5 yrs.—B.Arch., B.Eng.; 8 yrs.—M.D., C.M.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McGill, thesis and examn.—M.A., M.Sc., M.Eng., M.Com.; by 3 yrs. of graduate study—Ph.D.; by valuable contribution to legal science—D.C.L.; by a composition and examn. not less than 7 yrs. after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

DIPLOMAS. Lic. Mus., D.P.H., Teachers', Graduate Nurses', Physical Edn.

**WINTER COURSE IN AGRICULTURE.** The Winter Course in the Faculty of Agriculture has been extended from one year to two years. This course is intended to provide a general education for boys who intend to farm, and equip them with such a technical knowledge of agriculture as will enable them to deal with the problems arising in connexion with their work. The work is so arranged that students may choose subjects that definitely relate to the type of farming in which they are most interested.

Closely connected with this extension is the "old country boy" project, under which boys from the British Islands are encouraged to take up this diploma course at Macdonald College so as to fit them for the work of farming, and every effort is made, not only to give them the theoretical education that is needed, but also the practical. Since this plan was put into effect two or three years ago forty-three boys, representing thirty English public and secondary schools, have been placed on selected farms.

**ATTENDANCE** at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

**FEES.** Yearly tuition (for British students), Arts and Sci., \$165; Engin., \$225; Med., \$275; Dentistry, \$250; Law, \$225; Commerce, \$225; (for non-British students, Arts and Sci., \$215; Engin., \$275; Med., \$350; Dentistry, \$300; Law, \$275, Commerce, \$275) Music, \$225; Library Sci., \$150; Agric., residents of Canada, \$50; others, \$100. M.A., M.Sc., M.Eng., or M.Com. course, \$100 (with lab. work, \$125), Ph.D. course, each year, \$100 (\$125 with lab. work). For non-British students in the Graduate School, \$150 (\$175 with lab. work). Gradn. fee for M.A., M.Sc., M.Eng., or M.Com., \$20; Ph.D., \$30; D.Sc., or D.Litt., \$80, Mus.Doc., \$100. For extra fees, see Announcements of the various Faculties.

**SCHOLARSHIPS FOR GRADUATES.** In Econ and Polit. Sc., Guy Drummond Memorial Scholarship, \$1500; Allen Oliver, \$500; Montreal Manufrs. Assocn. and the Graduate Working Fellowship, \$800 each; Chem., Sterry Hunt, \$900; Geol., Le Roy, \$700; Mining Research and Teaching Fellowships, 3 of \$750 each; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, \$10,000 endowment open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, \$25,000; "Delta Upsilon," \$900; The Moyses Travelling Scholarships, 2 of \$1500 each; Law, Macdonald Endowment, \$20,000; Hugh McLennan, \$1000.

**RESIDENCE.** Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. **PHYSICAL TRAINING** is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., \$500 per session; approved lodgings, \$40 per month and upwards; rooms only, \$15 per month and upwards; board, \$25.00 and upwards.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

**PUBLICATIONS.** *Calendar* (July); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students; *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, \$5; *McGill and its Story, 1821-1921*, by Cyrus Macmillan (London, John Lane; New York, John Lane & Co.; Toronto, Oxford Univ. Press, \$3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill University*, by Dr. Maude Abbott.



## THE YEAR 1931-32

**BENEFACTIONS.** Rockefeller Foundation, for the Dept. of Neurol. and Neuro-Surg., \$1,232,652; Lady Roddick, for Roddick Memorial Gates, \$1500; Lady Osler, Library Endowment, \$1000; Joseph H. Jacobs, Legacy for prize in Sch. of Commerce, \$650; Anonymous, Endowment for Cancer Clinics at Royal Victoria and Montreal Genl. Hospitals, \$25,000; Rockefeller Foundation, for research in Surgery, \$21,971; Commercial Society, Loan Fund, \$750; for the Dept. of Neuro-Surgery: Mrs. M. F. Hodgson \$3250, A. A. Hodgson, \$1000, Mrs. Jean Reford \$3250, Dr. L. L. Reford \$1500, Mrs. Blanche Hutchinson, for experimental work in Infantile Paralysis, \$4000; Mrs. Blanche Hutchinson, for experimental work in Psychiatry, \$9702; Montreal Board of Trade, for an industrial survey of Montreal, \$1000; American Otological Society, for research in Oto-sclerosis, \$3592; and for research in Physiol., \$2694; Canadian National Council of Hygiene, \$3333; Pittis-Medical Faculty Fund, \$1115; Mrs. (Dr.) J. R. Fraser, for special work in Obstetrics, \$1200; Mr. and Mrs. R. R. Blacker, further contribution for books and journals and printing a catalogue for the Blacker Library of Zool., \$9500; Canadian Pulp and Paper Assn., for a fellowship, \$3000, and for the Dept. of Industl. and Cellulose Chem., \$7500; Pulp and Paper Institute of Canada, for scholarship in Physl. Chem., \$2000; Carnegie Corporation of New York, for the Library School, \$20,272; Dr. Casey A. Wood, further contribution for books and journals and printing a catalogue for the Blacker Library of Zool., \$1000.

**CHANGES IN ORGANIZATION.** In 1930 the Rockefeller Foundation made a grant of \$110,000 in aid of Social Research and during 1931-32 work was commenced. In the Fac. of Graduate Studies and Research a new dept., Animal Industry, was organized. New courses for the Master of Civil Law (M.C.L.) and the M.A. in Chinese Studies were drawn up and will be offered in the 1932-33 curriculum. Institute of Helminthol., for the study of animal parasites, organized at Macdonald Coll. Work on building begun under Govt. grant. School for Social Workers discontinued.

**EXTRA-MURAL AND EXTENSION WORK.** Extension courses in a variety of subjects are given in the afternoon and evenings for residents of Montreal and vicinity. Some prepare students for special examns., such as the First and Final examns. of the Canadian Assn. of Cost Accountants and the Inter. and Final examns. of the Chartered Inst. of Secretaries. About forty series of lectures are offered in outside centres.

**VISITS OF MEMBERS OF THE STAFF TO OTHER UNIVERSITIES, ETC.** Prof. A. S. Eve, Congress of Universities of the British Empire. Prof. Percy E. Corbett, Inauguration of President Carleton Stanley at Dalhousie Univ. Prof. W. G. McBride, opening of New Mining Laboratories, Univ. of Toronto. Prof. F. M. G. Johnson and Prof. C. F. Martin, Annual Meeting of the Assn. of American Univs. held at the Univ. of N. Carolina. Principal Sir Arthur Currie, Prof. Ira A. MacKay, Prof. F. Clarke, Prof. du Roure, Prof. R. M. Sugars, and Colonel Wilfrid Bovey, Conference of Canadian Univs, Ottawa, Ont. Prof. F. E. Lloyd, opening of New Botanical Laby., Univ. of Toronto. Dr. C. L. Huskins, Sixth Internl. Congress of Genetics, Cornell Univ.

**RESIGNATIONS.** Prof. A. J. D. Porteous (Philos.); Prof. Arthur Willey (Zool.); Dr. Francis McLennan, Governor.

**DEATHS.** Dr. C. E. Neill, Governor; Hon. John Sprott Archibald, Governor; I. Gammell, Governors' Fellow; Emer. Prof. Alex. D. Blackader (Pharmacol., Therap., and Pædiat.); Emer. Prof. Rt. Hon. Charles J. Doherty (Civil, Comm. and Internat. Law); Prof. W. T. Waugh (History).

HONORARY DEGREES. *LL.D.*—The Rt. Hon. Richard Bedford Bennett, M.P., Prime Minister of Canada, Francis W. MacLennan, B.A. Sc. (Elec.), B.Sc. (Mining), General Manager of the Miami (Arizona) Copper Co.; Hon. Alexander Cameron Rutherford, K.C., B.A., B.C.L., Chancellor of the Univ. of Alberta; William Harvey Smith, M.D., C.M., Emer. Prof. of Ophthalmol., Univ. of Manitoba, Ex-President, British Medical Assn.; John Huston Finley, A.M., LL.D., Assoc. Editor, *New York Times*; Maj.-Gen. Robert U. Patterson, M.D., C.M., Surgeon-Genl. of the U.S.A. Army; John Stanley Plaskett, LL.D., D.Sc., F.R.S., F.R.A.S.C., F.R.S.C., Director of the Dominion Astrophysical Observatory, Victoria, B.C.; Horatio Walker, LL.D., Canadian Artist, Ste. Petronille, Isle of Orleans, Qu.; Alfred North Whitehead, M.A., B.Sc., LL.D., Prof. of Philos., Harvard Univ.

STUDENTS. Full-time: total, 2709, including 272 graduates. Part-time: total, 286.

DEGREES. B.A., 143; B.Sc. (in Arts), 31; B.Com., 56; B.C.L., 23; B.Arch. 5; B.Eng., 58; B.S.A., 22; B.L.S., 13; B.H.S., 8; D.D.S., 10; M.D., C.M., 99; M.Sc., 28; M.A., 34; M.Com., 1; M.Eng., 7; Ph.D., 20; D.Sc., 1.

DIPLOMAS. Licentiate in Music, 5; Pharmacy, 2; Public Health, 2; Physical Education, 15; Public Health, 2; Social Service, 13; Graduate Nurses, 35.

# McMASTER UNIVERSITY, HAMILTON, ONT.

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia,  
D D. Denison, LL D., D C L. Acadia

REGISTRAR—E. J. BENGOUGH, B.A

BURSAR—G. M. HENRY, M A.

LIBRARIAN—DOROTHEA M. HALLFORD, B.A.

## PROFESSORS, LECTURERS, ETC.

*Biology* [Prof.  
Smith, R. W., B A., Ph D. Chic.  
Gaiser, Lulu O., B.A. W. Ont.,  
M.A., Ph.D. Columb.

Assoc. Prof  
Knowles, E. G., B.A.  
Jr. Grad. Asst  
Senn, H. A., B A. Jr Grad. Asst.

*Chemistry*  
Burke, C. E., Ph.D. Ill., M.A.  
Assoc. Dean (Sci) Prof.  
Walker, W. O., M.A. Tor. Prof.

*Chemistry, Physical*  
Coke, C. E., B A., M.Sc Tor.  
Spl Lectr.  
Armstrong, F. S., B.A.  
Jr Grad. Asst.

*English*  
McLay, W. S. W., B.A. Tor., M.A.  
Harv., D.Litt. Ac, LL.D. Qu.,  
Dean, Fac. of Arts Prof.  
Haddow, G. C., M.A. Ox. and Tor.  
Asst. Prof.  
Gundy, H. P., M.A. Tor. Lectr.

*Classics*  
Stearn, C. H., M.A. Camb., B.D.  
Lond. Prof.  
Carpenter, Marjorie, M.A. Mo.,  
Ph.D. Radcliffe  
(Dean of Women) Asst. Prof.  
Salmon, E. T., B A. Syd, B.A.  
Camb. Asst. Prof.

*French*  
Briquet, P. E., L. ès L Geneva  
Prof.  
Freeman, H. A., B.A. Sask. Lectr.

*Geology*  
McNairn, W. H., M.A. Tor., Ph.D.  
Tor. Prof.  
*German* [Prof.  
Mueller, P. W., B.A. Tor., M.A.

*History*  
New, C. W., B.A. Tor., Ph.D.  
Chic, B.Th., B.D. Prof.  
MacDonald, N., B.A. Qu., M A.  
Harv., Ph D Ed.  
Assoc. Prof.  
Carter, Gwendolen, B A. Tor. and  
Ox. Reader.

*Mathematics* [Prof.  
Findlay, W., M.A., Ph.D. Chic.  
Johns, A. E., M.A. Tor. Lectr.

*Philosophy, Psychology, and  
Ethics*  
Bensen, R. C., Ph D Chic., M.A.,  
B.Th. Prof.  
Jury, G. S., M A. Yale Lectr.

*Physics*  
Dawes, H. F., M.A. Tor., Ph.D.  
Tor., F.R.S. Can. Prof.  
McLay, A. B., M.A. Tor., Ph.D.  
Tor., B.A. Asst. Prof.  
Johns, M. W. Jr Grad. Asst.

*Political Economy*

Michell, H., B.A. Ox., M.A. Man  
Prof.

Taylor, K. W., M.A. Chic., B.A.  
Assoc. Prof.

Allely, J. S., M.A. Queen's and  
Harv. (Sociol.)

Grad. Asst. and Actg. Lectr.

*Public Reading and Speaking*

Kirkpatrick, F. H., Ph D. Central  
Coll. Spl. Lectr.

*Spanish*

Briquet, P. E., L. ès L. Geneva  
Prof.

*Theology**Christian Education, Sociology,  
and Theology*

McCrimmon, A. L., M.A. Tor.,  
LL.D. McM. and Acadia Prof.

*Church History*

Gilmour, G. P., M.A. Yale, B.A.,  
B.Th. Asst. Prof.

*Hebrew and Old Testament  
Interpretation*

Parker, N. H., B.Sc. Mississippi,  
Th.D. Southern Bapt. Semin-  
ary Prof

*Homiletics and Pastoral Theol.*

MacNeill, J., D.D. McM. and  
Baylor, B.A. (Princ., Fac. of  
Theol.) Prof.

*Missions and Evangelism*

Orchard, M. L., B.A. New Bruns.,  
M A. Colgate, B.D. Colg. Prof.

*New Test. Interpretation*

MacNeill, H. L., B.A., Ph.D. Chic.,  
LL.D. Prof.

*Religious Education* [Spl. Lectr

Merrill, B. W., B.A. Tor., B.Th.

*Physical Education*

Burridge, A. A., B.A. Director

## AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affil. for courses in Arts. President, J. R. C. Evans, Ph.D., Prol. of Geol. 12 other Professors and 9 other Teachers in Arts Dept.

## GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by \$900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Moulton Ladies' Coll., Toronto (founded in 1888), is represented on the Senate.

**LIBRARY**, 32,500 vols. **LABORATORIES**: Phys., Biol., Chem., Mineral.

**DEGREE COURSES.** 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B.A. degree is recognized by the Univ. of London.

**HIGHER DEGREES.** Open to B.A. after 1-yr. course (attendance at lectures not required)—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

**DIPLOMA.** English Theol., 3 yrs.' course.

**CERTIFICATE.** Missionary Training for women.

ADULT EDUCATION. Evening classes in Arts for teachers and others, leading to B.A. in Genl. Course.

FEES. Annually, for tuition, examn, library—Arts, \$100, Theol, \$25. For student organizations, athletics, etc., men, \$13.25, women, \$9.75.

RESIDENCE. Board and room per session: men in Edwards Hall, \$253, women in Wallingford Hall, \$263.

PUBLICATIONS. *Calendar* (June); *McMaster Monthly* (students' magazine), *McMaster Silhouette* (students' weekly paper); *McMaster News* (pub. by Alumni Assn.), eight times a year.

## THE YEAR 1931-32

DEVELOPMENT. Enrolment increased about 40 per cent since transfer of the Univ. from Toronto to Hamilton in 1930.

RETIREMENT. Prof. James Ten Broeke retired after 37 years as Prof. of Philosophy.

VISIT OF TEACHER FROM ANOTHER UNIVERSITY. Prof. E. W. Parsons (Colgate Rochester Divinity School) lectured two days a week on New Testament Interpretation as visiting professor.

HONORARY DEGREES. LL.D.—Douglas Clyde Macintosh, Henry Marshall Tory. D.D.—Bert Ward Merrill.

STUDENTS. Full-time: Arts, 479; Theol, 42. Part-time, 104, including 22 graduates.

DEGREES. B.A., 74, also at Brandon College, 23; M.A., 5, also at Brandon College, 2; B.Th., 5; Missionary Course for Women, 2.

# UNIVERSITY OF MANITOBA, WINNIPEG

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

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## PROFESSORS, LECTURERS, ETC.

### *Agriculture, v. infra*

#### *Anatomy, v. also Med -Surg.*

Inkster, R. G., M.B., Ch.B., M.D.  
Edin. Prof.  
Jackson, J. L., M.A. Alta., M.B.  
Tor. Asst. Prof.  
Boyd, G. I., M.B., Ch.B., M.D.,  
F.R.C.S. Edin. Asst. Prof.

#### Demrs.:

Cram, J. B., M.D.  
Holland, T. E., B.Sc., M.D.  
Onhauser, V. F., M.D.  
M'Elmoyle, W. A., M.D.  
Sigurdson, L. A., M.D.  
Unkauf, B. M., M.D.  
4 Pt.-time Demrs.

### *Architecture*

Osborne, M. S., B.Arch. Col. and  
Ohio, M.Sc. (Arch.) Col. Prof.  
Moffatt, R. W., B.A.Sc. Tor.  
Assoc. Prof.  
Russell, J. A., B.Arch. Mass. Inst.  
Tech Asst. Prof.  
2 Student Assts.

### *Astronomy, v. Maths.*

### *Bio-Chemistry*

Cameron, A. T., M.A., D.Sc. Edin.,  
F.I.C., F.R.S.C. Prof.

White, F. D., Ph.D. Edin., F.I.C.  
Asst. Prof

#### 1 Demr.

### *Botany*

Buller, A. H. R., B.Sc. Lond.,  
D.Sc. Birm., Ph.D. Leip.,  
LL.D., F.R.S., F.R.S.C. Prof.  
Roberts, H. F., B.A. Kans, LL.B.  
N -Wstn., M.Sc. Kans (Agr.)  
Asst. Prof.

Lowe, C. W., M.Sc. Birm  
Asst. Prof.

2 Demrs. and 4 Student Assts.

### *Chemistry*

Parker, M. A., B.Sc. Glas., LL.D.,  
F.I.C., F.R.S.C. Prof.  
Armes, H. P., B.Sc. Leeds, Ph.D.  
Stras. Assoc. Prof.  
Campbell, A. N., D.Sc. Aberd.,  
M.Sc., Ph.D. Lond., F.I.C.

Asst. Prof.  
Hiebert, P. G., M.A. Tor., M.Sc.,  
Ph.D. McG. Asst. Prof.  
Saunderson, H. H., B.A., M.Sc.,  
Ph.D. McG. Lectr.  
12 Student Assts.

### *Classics*

[Prof.  
Clark, F. W., Ph.D. Chic., B.A.

Hugill, W. M., B.A. Tor. Asst. Prof.  
Johnson, S., M.A. Asst. Prof.

*Engineering, Civil*

Finlayson, J. N., M.Sc. McG.,  
M.E.I. Can. Prof.  
Moffatt, R. W., B.A.Sc. Tor.  
Assoc. Prof.

Macdonald, A. E., M.Sc. McG.  
Assoc. Prof.

Herriot, G. H., B.Sc. Qu., D.L.S.,  
M.E.I.C. Assoc. Prof.

Riddell, W. F., M.Sc. Asst. Prof.

Scott, W. M., B.A.Sc. McG.,  
M.E.I.C. Special Lectr.

3 Demrs.

*Engineering, Electrical*

Fetherstonhaugh, E. P., M.C., B.Sc.  
McG., M.E.I.C., Dean of Fac.  
Prof.

Dorsey, J. W., E.E. Lehigh  
Asst. Prof.

2 Demrs.

*Engineering, Mechanical*

Hall, N. M., O.B.E., B.Sc. McG.,  
M.E.I.C. Prof.

*English*

Allison, W. T., M.A. Tor., Ph.D.  
Yale Prof.

Perry, A. J., M.A. Yale Prof.  
Asst. Profs. :

Carver, P. L., B.A. Leeds.

Argue, R. F., M.A.

Wheeler, A. L., B.A. Br. Col.,  
M.A. Tor., Ph.D. Wisc.

Saunders, Doris B., M.A. Lectr.

*French*

Osborne, W. F., M.A. Tor., O.A.  
Evans, W. D., M.A. Tor.

Asst. Prof.  
Meredith-Jones, C., M.A. Wales

Asst. Prof.  
Ballu, Céline A., M.A. Wisc. Lectr.

Richard, M. E. J., B.A. Alta.  
Lectr.

*Geology and Mineralogy*

De Lury, J. S., B.A. Tor., Ph.D.  
Minn., F.R.S.C. Prof.

Kirk, S. R., B.Sc., Ph.D. St. And.  
Asst. Prof.

Brownell, G. M., M.Sc. Man., Ph.D.  
Minn. Asst. Prof. (on leave)

Shepherd, F. D., B.Sc. Lectr.  
4 Student Assts.

*German*

Heinzelmann, J. H., B.A. Ill.,  
Ph.D. Chic. Prof.

Mainland, W. F., M.A. Edin.  
Asst. Prof.

Jones, Mrs. Anna C., B.A. Asst.

*History*

Fieldhouse, H. N., M.A. Shef.,  
B.A. Ox. Prof.

Howe, J. E., B.A. Yale, M.A.  
Acad. Asst. Prof.

Marshall, D. W. H., M.A., LL.B.  
Glas., B.A., B.Litt. Ox.

Asst. Prof.  
MacFarlane, R. O., M.A. Qu., A.M.  
Harv. Asst. Prof.

*Law, v. infra—Affiliated Colleges*

*Mathematics and Astronomy*

Wilson, N. R., M.A. Tor., Ph.D.  
Chic., F.R.S.C. Prof.

Warren, L. A. H., M.A. Qu., Ph.D.  
Chic., F.R.A.S. Prof.

Tier, W., M.A. Tor., Dean of Fac.  
of Arts Prof.

Milne, T. H., M.A. Tor. Asst. Prof.

Lawson, J. W., M.A. Lectr.

Bell, H. M., B.A. Lectr.

*Pharmacy*

[Prof.  
Bletcher, H. E., B.Sc. (Phar.)

M'Dougall, D., M.Sc. Asst. Prof.

*Philosophy and Psychol.*

[Prof.  
Wright, H. W., B.A., Ph.D. Corn.  
Lodge, R. C., M.A. Ox. Prof.

*Physics*

Allen, Frank, M.A. N. Bruns. &  
Corn., Ph.D. Corn., LL.D.,  
F.R.S.C. Prof.

McClung, R. K., B.A. Camb., M.A.,  
D.Sc. McG., F.R.S.C.

Assoc. Prof.

Young, J. F. T., M.A. Tor., Ph.D.  
Tor. Assoc. Prof.  
Anderson, W. A., M.A. Chic.,  
M Sc. Asst. Prof.  
Macdonald, P. A , M Sc , Ph D.  
Asst. Prof  
3 Demrs. and 5 Student Assts.

*Physiology, v. Medicine*

*Political Economy*  
Clark, A. B., M.A. Edin. Prof.  
Jones, R. F., M A. Liv.  
(Sociol ) Asst. Prof.  
Grant, Prof. H. C. Asst Prof.  
Waines, W. J., M.A. Lectr.

*Zoology*  
Wardle, R. A , M.Sc. Manc. Prof.  
Riley, C. F. C., M.A. Doane, B.Sc.  
Mich., M.Sc. Ill. Asst. Prof.  
Neave, F., M.Sc. Manc. Lectr.  
3 Demrs. and 2 Student Assts.

**Agriculture and Home Economics**  
[at Manitoba Agricultural College]  
McKillican, W. C , B.S.A. Tor.  
Dean.

*Agric. Economics*  
Grant, H. C., B S A., M.A , Ph.D.  
Stan. Prof.

*Agricultural Engineering*  
Shanks, G. L., B.S.A. Prof.

*Agronomy*  
M'Rostie, G. P., B.S.A. Tor.,  
M.S.A., Ph.D. Corn. Prof.  
Ellis, J. H., B.S.A., M.S. Minn.  
Assoc. Prof.  
Elders, A. T., M.S. Minn., B.S.A.  
Asst. Prof.

*Animal Husbandry*  
Wood, G. W., B.S.A. McG., M.S.  
Wisc. Prof.  
Brown, J. M., B.S.A. Tor., M.S.  
Minn. Assoc. Prof.  
Sommerfeld, H. B., M.S. Wisc.,  
B.S.A. Sask.  
Asst. Prof. (on leave).

*Bacteriology and Animal Pathology*  
Savage, Alfred, B.S.A. McG.,  
D.V.M. (Corn.), M.R.C V S.  
Prof.

James, N., B.S.A. Tor , M.S. Iowa  
(Bact.) Asst. Prof.  
Jamieson, M C., B.S.A. Tor.  
(Bact.) Lectr.

*Biology*  
Jackson, V. W., B.A. Qu., M.S.  
Minn. Prof.

*Chemistry* [(Agr. Chem ) Prof.  
Geddes, W. F., B.S.A., M.A. Tor.,  
M.S., Ph.D. Minn.  
Robinson, A. D , B.A. Sask , M A.,  
Ph.D. Minn. Asst. Prof.

*Clothing and Textiles* [Lectr.  
Groff, Clara Louise, B.S. Col.  
McFadden, Eleanor G., B.S. Iowa  
Lectr.

*Dairy Husbandry*  
Brown, R. W., B.S.A. Tor., M.S.  
Iowa Prof.  
Thorneloe, K. C., B.S.A., B. Col.,  
M.S. Iowa Lectr.

*Education* [Lectr.  
Moxon, Mary C., Ph.B. Chic.

*English*  
Hopper, C. R., M.A. Assoc. Prof.  
Bell, H. M., B A. (also Maths )  
Lectr.

*Entomology*  
Mitchener, A. V., B.A. McM.,  
B.S.A. Tor., M.Sc. Prof.

*Home Economics*  
Duncan, Mrs. L. C., Ph.B. Chic.,  
M.A. Director.

*Horticulture and Forestry*  
Brodrick, F. W., B.S.A. Tor. Prof.

*Household Art*  
South, Mrs. Jean Lectr.

*Nutrition*  
Hiltz, Mary C., B.S. Col., M.A. Tor.  
Asst. Prof.  
McLaughlin, Florence E , B.Sc.  
(H.E.) Lectr.



*Physical Education*

Youmans, R. W. Director.

*Physics*

[Lectr.  
Thomson, W. A., B.S.A. Sask.

*Plant Pathology*

Bisby, G. R., B.S. So. Dak., M.A.  
Col., Ph.D. Minn. Prof.

*Poultry Husbandry*

Herner, M. C., B.S.A. Tor. Prof.  
6 Instrs. and an extension service  
staff of 14.

*Medicine*

(for subjects of first 2 yrs —Anat ,  
etc., v. *supra*)

*Bacteriology and Serology*

Cadham, F. T., B.A., M.D.,  
F.R.C.P.C. Prof.  
Lansdown, L. P., M.D. Lectr.  
1 Demr.

*Dentistry*

Merkeley, H. J., M.D.S. Lectr.

*Forensic Medicine and Toxicology*

Speechly, H. M., M.R.C.S.,  
L.R.C.P. Lectr.

*Laryngology and Otology*

Fletcher, G. W., M.D., F.A.C.S.  
Prof.

Leishman, A. G. V., M.D., F.A.C.S.,  
F.R.C.S.C. Assoc. Prof.

Washington, E. J., M.D.,  
F.R.C.S.C. Assoc. Prof.

Black, R., M.D. (Otol.) Lectr.  
Magee, R. C. E., B.A., M.D.  
(Otol.) Lectr.

*Medicine and Clinical Medicine*

Gilmour, C. R., M.D., C.M.,  
F.R.C.P.C. Prof.

*Assoc. Profs. of Med. :*

Davidson, J. R., M.A., M.D., C.M.,  
F.R.C.P.C.

Hart, F. J., M.D., C.M., M.R.C.S.,  
L.R.C.P.

Hunter, C. M.A., M.D., F.R.C.P.  
Lond. and Can.

Moorhead, E. S., M.B., B.Ch. Dub.,  
B.A.O., F.R.C.P.C.

Stewart, D. A., B.A., M.D., LL.D.,  
F.R.C.P.C.

Mathers, A. T., M.D., C.M.,  
F.R.C.P.C. (Psychiatry), Dean  
of Fac.

Adamson, J. D., M.D., M.R.C.P.E.,  
F.R.C.P.C.

*Asst. Profs. of Med. :*

Alexander, A. B., B.A., M.D.

Chown, G., O.B.E., B.A., M.D.,  
C.M., F.R.C.P.C. (Pædiatrics)

Warner, N. W., M.D.

*Lectrs. in Med. :*

Bell, L. G., M.D., M.R.C.P. Lond.  
Benner, F. A., M.D., C.M.,  
M.R.C.S., L.R.C.P.

McIntyre, Dougald, M.D.

Olson, B. H., B.A., M.D.

McMillan, J. C., M.D., F.A.C.P.,  
F.R.C.P.C. (Roentgenol. and  
Electro-therapy).

Davidson, A. M., M.D. Edin.  
(Dermatol.).

Walker, S. B., L.R.C.P., M.R.C.S.  
(Eng.).

Hossack, J. C., M.D., C.M.  
Kitchen, H. D., M.M., M.D., C.M.

Turner, F. M., M.D.  
Hollenberg, A., B.A., B.Sc., M.D.

McEachern, J. D., M.D.  
Bedford, G. V., M.D.

Ormerod, M. J., M.D. Tor.  
(Therap.) (also Physiol.).

20 Demrs.

*Obstetrics and Gynecology*

MacKay, D. S., O.B.E., M.D.,  
C.M., F.R.C.S.E., F.R.C.S.C.  
(Gynæcol.) Prof.

McQueen, J. D., D.S.O., M.D.,  
C.M., F.A.C.S., F.R.C.S.C.

Assoc. Prof.  
Bjornson, O., M.D., C.M., F.A.C.S.  
(Obs.) Prof.

Mitchell, R. B., B.A., M.D., C.M.,  
F.A.C.S., F.R.C.P.C.

(Obs.) Assoc. Prof.

McGuinness, F. G., M.D., C.M.,  
F.R.C.S.C.

(Obs.) Asst. Prof

Lectrs. in Gynaecology :

Rice, C. R., M.D., C.M.

MacCharles, C. W., M.D.

Lectrs. in Obstet. :

Campbell, W. G., M.D., C.M.

Abbott, W. F., M.C., B.A., M.D.,  
C.M.

Arthur, C. L., M.D., F.R.C.S.C.

Kobrinisky, S., M.D.

1 Demr. in Obs.

### *Ophthalmology*

Bell, T. H., M.C., M.D., C.M.,  
F.A.C.S., M.R.C.S., L.R.C.P.

Prof

Bell, P. G., D.S.O., B.A., M.D.,  
F.A.C.S.

(Clin. O.) Assoc. Prof.

Stefansson, J., M.D., F.R.C.S.C.

Lectr

Campbell, W. E., B.A., M.D. Lectr.  
2 Demrs.

### *Pathology*

Boyd, W., M.D., M.R.C.P. Edin.,  
Dipl. Psych., F.R.S.C. Prof.

Nicholson, D., M.D., C.M.,  
M.R.C.P. Lond. Asst. Prof.

1 Demr., 2 Student Demrs.

### *Pædiatrics, v. Medicine*

#### *Physiology and Pharmacology*

Moorhouse, V. H. K., M.C., B.A.,  
M.D. Tor. Prof.

Ormerod, M. J., M.D. Tor. (also  
Lectr. in Ther.) Asst. Prof.

Fraser, R. H., B.A., M.D. (Physiol)  
Lectr.

2 Demrs., 1 Student Demr.

#### *Preventive Medicine and Public Health*

Douglas, A. J., B.A., M.D., C.M.,  
F.R.C.P.C. Prof.

Jackson, F. W., M.D., D.P.H.  
Lectr.

2 Instrs.

#### *Surgery and Clinical Surgery*

Brandson, B. J., B.A., M.D.,  
C.M., F.A.C.S., F.R.C.S.C.

Prof.

Assoc. Profs. of Clin. Surg. :

Campbell, A. M., B.A., M.D., C.M.,  
F.A.C.S., F.R.C.S.C.

Fletcher, R. D., M.A., M.D., C.M.,  
F.A.C.S. (Urology).

Galloway, H. P. H., M.D., C.M.,  
F.A.C.S., F.R.C.S.C. (Or-  
thop.)

Gibson, A., M.B., Ch.B., F.R.C.S.,  
F.A.C.S. (Orthop.) (also Lectr.  
in Appld. Anat.).

Gunn, J. A., C.B., O.B.E., B.A.,  
M.D., F.A.C.S., F.R.C.S.C.

Lehmann, J. E., M.B., M.R.C.S.,  
L.R.C.P., F.A.C.S., F.R.C.S.C.

Mann, W. L., B.A., M.D., C.M.,  
F.A.C.S., F.R.C.S.C.

Macleay, N. J., M.D., M.R.C.S.,  
F.A.C.S., F.R.C.S.C.

Wagh, O. S., M.D., C.M., F.A.C.S.

Webster, W., D.S.O., V.D., M.D.,  
C.M., F.R.C.S.C. (Anæ-  
sthetics).

Asst. Profs. of Clin. Surg. :

Boardman, E. J., M.D., F.R.C.S.C.  
(Urology).

Fahrni, G. S., M.D., C.M., F.A.C.S.

Lectrs. in Clin. Surg. :

Gardner, W. A., B.A., M.D., C.M.,  
F.A.C.S. (Orthop.).

Hamilton, T. G., M.D., F.A.C.S.

Musgrove, W. W., M.D., C.M.,  
F.A.C.S.

Murray, A. A., M.D., C.M.,  
F.A.C.S., F.R.C.S.C. (Or-  
thop.).

Aikenhead, D. C., M.D. (Anæsth.).

Coad, W. E. R., M.D., C.M.,  
M.R.C.S., L.R.C.P., F.R.C.S.  
Ed.

MacCharles, M. R., M.D., C.M.,  
F.R.C.S. Edin. and Can.

McEachern, J. D., M.D., F.A.C.S.

McIntyre, D. F., M.D., F.A.C.S.

Secord, W. H., M.C., M.D., C.M.	Smith, F. A., M.D. (Radium Therapy).
Burns, C. W., B.A., M.D., C.M., F.A.C.S., F.R.C.S.C.	Thorlakson, P. H. T., M.D., C.M., F.R.C.S.C.
Collin, L. D., B.L., M.D., F.R.C.S.C.	3 Demrs. in Clin. Surg.
MacKinnon, A. P., M.D., C.M., F.A.C.S., F.R.C.S.C. (Orthop.).	1 Demr. in Surg <i>Therapeutics, v. Medicine</i>

**AFFILIATED COLLEGES** represented on the Council, the first five having power to confer degrees in Divinity :

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—Rev. F. Faure, S.J.

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—Rev. G. A. Wells, C.M.G., M.A., D.D.

MANITOBA COLLEGE, Winnipeg (United Ch. of Canada). Principal—Rev. John MacKay, M.A., D.D.

WESLEY COLLEGE, Winnipeg (United Ch. of Canada) President—Rev. J. H. Riddell, D.D., LL.D.

ST. PAUL'S COLLEGE, Winnipeg (R.C.) Rector—Rev. C. B. Collins, B.A., LL.D.

MANITOBA LAW SCHOOL, Winnipeg. Dean—E. H. Coleman, LL.B., K.C.

## GENERAL INFORMATION

Established 1877, the Univ. was reconstituted in 1900 and 1917. For early history, see *Yearbook* for 1929. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

The buildings of the Junior Division in Arts and Sci. and the Med. buildings are in the city of Winnipeg, which, with adjacent municipalities, has a population of over 300,000. The site of the Senior Division in Arts and Sci. and of the Fac. of Agric., and the future site of the Fac. of Engin. and Arch. is in the municipality of Fort Garry, and is 7 miles from the centre of Winnipeg. Two new Arts and Sci. buildings, of the most modern construction, have recently been completed there at a total cost of \$1,163,000. Instruction in the Sen. Div. was transferred to the new site in Sept. 1932.

UNIV. LIBRARY, 52,000 vols. ; 551 periodicals received. The Med. College has a library of 9760 vols., and receives 200 periodicals. The Agric. Coll. has a library of over 8000 vols., and receives 141 periodicals. LABORATORIES : Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS : Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics : 2 general (1000 beds) and several special, including tuberculosis. FARM on Agric. Coll. estate (676 acres).

FACULTIES. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. Other subjects of Arts course are taught in the affiliated Colls. Law is taught in the Manitoba Law School, which is under the direction of trustees jointly appointed by the Univ. and the Law Society of Manitoba.

**MATRICULATION examn.** is conducted in June by the Examn. Board of Manitoba, also a limited Matricn. in Sept. Matricn. subjects for Arts or Sci. courses: English, Hist., Maths., Latin or Greek or French or German; a second language or 2 of the following—Physics, Chem., Genl. Science, Biol.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comml. work. Exemption from examination is allowed in the subjects of Grades IX. and X. Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science; for Law of 2nd year in Arts, with Latin to the end, at least, of the 1st yr.; for Engineering standing of one pre-engineering year in Arts and Science, and for Architecture one pre-architectural year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

**DEGREE COURSES.** 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch., LL.B., B.S.A., B.Sc. (H.Ec.); 5 yrs., following 2 pre-medical yrs.—M.D.; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.). Graduates in Med. of at least 2 yrs.' standing with certain prescribed training and experience may obtain C.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis. A course involving research and governed by specl. regns. leads to the degree of B.Sc. (Med.).

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being "a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the "Junior Division" (work normally done in first two sessions) and 32 in the Senior Pass Division (for Honours, 48 in the Senior Honours Division) are required for the degree. For the B.A.—English (2 yrs.), a foreign language (2 yrs.), and Maths. (1 yr.) are compulsory.

The M.A. may be obtained by candidates possessing the Honours B.A. of Manitoba, or an equivalent degree, by an extra year of full-time study under the direction of a committee of instructors. Candidates for the M.A. possessing the pass B.A. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr.'s grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. Candidates for the M.Sc. possessing the pass B.Sc. of Man., or an equivalent degree, must first obtain 16 units-of credit in Honours Courses. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary.

In the B.Sc. Engn. courses a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr. 2 yrs.' service in an Architect's office following graduation (B Arch.) will qualify for licence to practise.

**DIPLOMAS.** Pharmaceutical Chemistry (2 yrs.' course); Agriculture (3 yrs.); Home Economics (2 yrs.). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assoc. of Graduate Nurses, to the practice of *Accountancy* and membership of the Inst.

C.A. of Manitoba, to the practice of *Architecture* and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

**FEES.** Tuition and examn. in Arts and Sc., \$150 p.a.; Engin. and Arch., \$200; Phm. Dipl. course, \$165; Med., 1st, 2nd, 3rd, and 4th yrs., \$250, 5th yr., \$125; Law, \$115. Licence to practise Med., \$100. Agr. or Home Econ. Dipl. course, \$28; Degree course, \$105 (1st and 2nd yrs.) and \$135 (3rd and 4th yrs.).

**SCHOLARSHIPS** for graduates: 2 Travelling Fellowships, each \$400, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning.

**RESIDENCE.** Hostels at all affiliated Arts Colls. and at the Fort Garry site

**INTERCHANGE** of teachers for a few days and conference annually with Univs. of N. Dakota, Sask., Alberta, and Brit. Col.

**UNIVERSITY EXTENSION.** (1) Winter Evening Business courses in Acctcy., Comml. Law, English, Pol. Econ., etc., given partly by members of regular Univ. staff. (2) Popular lectures in numerous centres. (3) Radio popular lectures, weekly. (4) Summer School. (5) A number of short courses at Man. Agric. Coll. in Agric. Eng., Live Stock, Hort., Beekeeping, Dairying, etc.

**PUBLICATIONS.** *Calendars* (July), *Matricn*, and the several faculties, free; *Manitoban* (students' paper), weekly; *Annual Report*; *Historical Notes* (1877-1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*.

## THE YEAR 1931-32

**BENEFACTIONS.** The Library of the Coll. of Physicians and Surgeons of Man. (2000 vols.) presented to the Univ. to be incorporated with the Med. Coll. library. An annual Gold Medal in Econ. donated by the Alpha Kappa Fraternity in memory of the late Ephraim Buckwold, B.A.

**NEW BUILDINGS.** A new Arts and a new Science building completed on the permanent Ft. Garry site (cost \$1,163,000).

**NEW DEVELOPMENTS.** St. Paul's College (R.C.), Winnipeg, affiliated with the Univ. Provision made for instruction in Dentistry (elective) in 4th yr. o Med. course. Provision made for election by qualified students in the 2nd yr of Sen. Pass Div. in Arts of courses involving 8 rather than 4 units of credit in certain subjects.

**RESIGNATIONS AND RETIREMENTS.** Hugh Mackay (Med.); M. S. Fraser (Prev. Med.).

**DEATHS.** A. J. Burridge (Med.), N. K. McIvor (Clin. Surg.).

**HONORARY DEGREES.** LL.D.—William John Black, Director, Dept. o Colonization, Agric. and Natural Resources, Can. Nat. Railways; D'Alton Cory Coleman, Vice-President, Can. Pac. Railway; Arthur Meighen, member of the Senate of Canada.

**STUDENTS.** Full-time: total, 2828, incl. 52 graduates. Part-time: total 33. Summer School, 1009; Extension, 412; extra-mural, 301, incl. 22 graduates.

**DEGREES.** B.A., 195; M.A., 8; B.Sc., 39; B.Sc. (H.Ec.), 19; B.Sc. (C.E.), 17; B.Sc. (E.E.), 19; M.Sc., 8; B.S.A., 22; B.Arch., 8; LL.B., 16 M.D., 34; Ph.D., 1; LL.D. (Hon.), 3.

**DIPLOMAS.** Agric., 4; H.Ec., 4; Pharmacy, 23.

# MONTREAL UNIVERSITY

PATRON—.....

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal  
 ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Taron  
 Apostolic Administrator, O. L. d'H.

RECTOR—Mgr. V.-JOSEPH PIETTE, C. L. d'H.

PRESIDENT—Hon. F. L. BÉIQUE, O. L. d'H., LL.D.

PRESIDENT OF THE EXECUTIVE COMMITTEE—ERNEST DECARY.

VICE-RECTOR—Canon E. CHARTIER, M. ès A., L. ès L., D.Ph.

SECRETARY-GENERAL AND DIRECTOR OF EXTRA-MURAL RELATIONS—  
 E. MONTPETIT, B A , LL D., K.C., D.S.P. Paris, membre de l'A  
 roy. lang. et litt. françaises de Belgique, Chev. O. Léop., O. L. d'H.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A.

## PROFESSORS, LECTURERS, ETC.

*Agriculture*, v. *infra* Affiliated  
 Instns.

*Anatomy*, v. also Med. Histo-  
 logy

Delorme, L. N., M.D. Prof.

Masson, P., M.D. (A. Path.) Prof.

Simard, L. C., M.D.

(A. Path.) Asst. Prof.

Rivard, J. H., M.D. Asst. Prof.

Delage, J.-B., M.D. Lectr.

*Applied Science*, v. *infra* Affili-  
 ated Instns.

*Art, History of*

Lagacé, J. B., M.A. Prof.

*Astronomy*

[Emer. Prof.

Choquette, Mgr. C. P., P.D., M.A.

*Biology*

Prat, H. Prof.

Préfontaine, G., M.D. Lectr.

Gardner, G., B.A., Lic. ès Sc.

Lectr.

*Botany*

Marie-Victorin, Frère, D.Sc. Prof.

Lectrs :

Rousseau, J. B. A., L. ès Sc.

Brunel, J., L. ès Sc.

*Canadian Literature*

[Prof

Chartier, Canon E., M.A., Lic.

L. Paris, D.Phil., LL.D.

*Chemistry*, v. also *infra* Affil-  
 ated Instns

Baril, G. H., M.D. (Org. C.) Pro

Asst. Profs. :

Nadeau, H., L. ès Sc. Paris

Flahaut, J., L. ès Sc. Lille (Phy  
 C.).

Riou, P. (Applied C.).

Lectrs. :

Cartier, P., B.A., L. ès Sc.

Barré, R., B.A., D.Sc. Paris.

Delorme, G., B.A., L. ès Sc.

Labarre, J., D. ès Sc. Paris (Bi  
 C.).

*Classics*

Chartier, Canon E., M. ès A

L. ès L. Paris (Gk.) Pro

Maurice, Abbé O., D.Th., L. ès

Paris (Latin) Pro

\* Dean of the Faculty.

- Commerce*, v. *infra* Affiliated Instns.
- Dentistry*, v. *infra*
- Drawing*  
Saint-Charles, J. Ind. Lectr.
- Economics*, v. *infra* Soc. Sciences, School of
- Engineering*, v. *infra* Affiliated Instns.
- English Literature*  
Atherton, W., Ph D., LL.D., D. ès L. Prof.
- French Literature* [Prof.  
Dombrowski, H., Ag. des L. Paris
- Geography*  
Tessier-Lavigne, Y., L Sc. Soc. Ind. Lectr.
- Geology*, v. also *infra* Affiliated Instns.  
Mailhot, A, B.A., I C. Prof.
- History*  
Groulx, L., M A., D.Th. (Canadian H.) Prof.  
Atherton, W., Ph.D., LL.D., D. ès L. (Canadian H.) Prof.  
Bruchési, J., LL L., Lic.Sc. polit. Paris (Comml. and Gen. H.) Ind. Lectr.  
Bernard, S. V. (H of Acadia) Lectr.
- Journalism*, v. *infra* Social Sciences, School of
- Law*, v. *infra*
- Mathematics*  
Léveillé, A., B.A. Lond. Prof.  
Beaupré, V. E, B.A., I C. Asst. Prof.  
Charron, D. Ind. Lectr.
- Medicine*, v. *infra*
- Mineralogy*, v. *infra* Affiliated Instns.
- Modern Languages* (German, Spanish, and Italian)  
Jasmin, H., D.Ph., D Th., L E S., M A. Prof.
- Music*, v *infra* Attached Instns.
- Pedagogy*  
Maurice, Abbé O., D.Péd. (Primary) Prof.  
Also for Secondary, the Profs. of the Fac of Letters.
- Philosophy* [Prof.\*  
Forest, C, O P., Th B, Ph.M.  
Pineault, Abbé L., D.Th., D.Ph., M.A. (Logic and Social Law) Prof.  
Gauthier, O., D.Th., D.Phil. Prof.  
Jasmin, D., B.A., LL.D., D.Phil. (Natural Law) Prof.  
Lamarche, A, O P, D.Th., D Phil. Prof.  
Hébert, Abbé E., D Th., D Phil. (Social Law) Prof.  
Voyer, R. M., O.P., S.Th L. (Psychol.).  
Peghaire, J., C.S. Sp, D.Th, D.Ph. (Critic.).  
Gagnon, E., C S C, D.Ph. (Cosmol).  
Fafard, L, C S.C, D.Ph., D.Th. (Ethics).  
Perrier, A, D.Th, D.Ph (Social Morals).  
Bastien, M. N., Ph.D (Hist. of Philos).  
Barbeau, M. A., M.D., D.Ph. (Psycho-pathol.).  
Wendling, A. L., I.E., Lic. Sc. (Physics).
- Physics*  
Gendreau, E., L. ès Sc. Paris, M.D., D.Phil. Prof  
Lectrs. :  
Demers, J., B.A.  
Wendling, A. V., L. ès Sc. Paris.  
Dufresne, O, B.A., M.D.

<i>Physiology</i>	
Asselin, E.-G., M.D.	Prof.
Barbeau, A., M.D.	Lectr.
<i>Theology</i>	
Profes :	
Yelle, E., D.Th.*	
Allard, R., D.Th.	
Allard, A., D.Th.	
Sylvestre, Canon A., D.Th.	
Ferland, A., D.Th.	
Duchemin, F., D.Th.	
Boileau, J., D.Th.	
Duhamel, R., D.Th.	
Gattet, B., D.Th.	
Charron, Y., D.Th.	
Lesieur, R., D.Th.	
McShane, G., D.Th.	
Maurault, O., D.Th.	
Légrand, H.-M., D.Th.	
Pustienne, A., D.Th.	
Belcourt, E., D.Th.	
Ouellette, J.-B., D.Th. (Hebrew and Gk.).	
Dubeau, A., D.Th.	
Desrosiers, J.-B., D.Th.	
Thibault, E., D.Th.	
Boudreau, H., D.Th.	
Oumet, A., D.Th. (Hebrew and Gk.).	
Bissonnette, R., D.Th.	
<i>Veterinary Science, v. infra</i>	
Affiliated Instns.	
Law	
<i>Administrative and Munic. L.</i>	
Baudouin, G., LL.D.	Prof.
<i>Civil L.</i>	
Demers, Hon. L. P., LL.D., J. of High Ct.*	Prof.
Beaulieu, E., LL.D., K.C.	Prof.
Loranger, Hon. L., LL.D.	Lectr.
<i>Civil Procedure</i>	
Taschereau, R., LL.D., K.C.	Prof.
Genest, R., LL.D.	Prof.
<i>Commercial and Marit. L.</i>	
Perrault, A., LL.D., K.C.	Prof.
<i>Constitutional L.</i>	
Cousineau, Hon. P., LL.D., J. of High Ct.	Prof.
<i>Criminal L.</i>	
Morin, L. J. S., LL.D., K.C.	Prof.
Gendron, L., LL.L.	Prof.
<i>Finance, Comm. &amp; Indust. L.</i>	
Perrault, A.	Prof.
Asst. Profs :	
Gouin, L. M., LL.D.	
Gérin-Lajoie, A., LL.D.	
Faribault, R., LL.L.	
<i>Hist. of Law</i>	
Gérin-Lajoie, A., LL.D.	Lectr.
<i>Internat. L.</i>	
MacKay, H., LL.D.	Lectr.
<i>Notarial Procedure</i>	
Morin, V., LL.D.	Prof.
<i>Roman L.</i>	
Caron, M., LL.L.	Lectr.
<i>Social Sciences, Economics</i>	
Montpetit, E., B.A., LL.D., K.C.	Prof.
Medicine	
(for subjects of the first 2 yrs.—Anat., etc., v. <i>supra</i> )	
<i>Bacteriology</i>	
Aubry, H., M.D.	Asst. Prof.
Bertrand, A., M.D.	Asst. Prof.
Gauthier, P.-P., M.D.	Lectr.
<i>Chemistry, Physiological</i>	
Baril, G.-H., M.D.	Prof.
Nadeau, H., M.D.	Lectr.
<i>Contagious Diseases</i>	
Leduc, J., M.D.	Prof.
<i>Deontology</i>	
Parizeau, T., M.D.	Prof.
<i>Dermatology and Syphilis</i>	
Décarie, J., M.D.	Prof.
Marin, A., M.D.	Asst. Prof.
Toupin, J. R., M.D.	Asst. Prof.
<i>Diseases of Children</i>	
Lapierre, G., M.D.	Asst. Prof.
Letondal, P., M.D.	Asst. Prof.



*Gynæcology*

Harwood, L. de L., M.D. Prof.\*  
 Ethier, A., M.D. Prof.

Asst. Profs. :

Gérin-Lajoie, L., M.D.  
 Trudeau, R., M.D.

*Histology and Embryology*

Van Campenhout, E., M.D. Prof.  
 Delage, J.-B., M.D. Lectr.

*History of Medicine*

Saint-Jacques, E., M.D. Prof.

*Hygiene*

Baudouin, J. A., M.D. Asst. Prof.

*Legal Medicine*

Fontaine, R., M.D. Lectr.

*Materia Medica*, v. also Pharma-  
 col. and Therap.

Fortier, L. E., M.D. Prof.

*Medical Physics*

Gendreau, E., M.D. Prof.

*Medicine, Clinical*

Benoit, E. P., M.D. Prof.  
 Lesage, A., M.D. Prof.  
 Bruneau, T., M.D. Prof.  
 Léger, A., M.D. (also in Pathol.) Prof.

Asst. Profs. :

Dubé, E., M.D. (also in Pathol.).  
 Lebel, H., M.D.  
 Robichaud, P., M.D.  
 Hamel, G., M.D.  
 Rouleau, A., M.D.  
 Boucher, R., M.D. (also in Pathol.).  
 De Guise, R., M.D. (also in Pathol.).

*Mental and Nervous Diseases*

Bellefeuille, G. L. de, M.D. Prof.  
 Noel, O., M.D. Asst. Prof.  
 Larose, C., M.D. Asst. Prof.  
 Legrand, E., M.D. Lectr.

*Moral Philosophy*

Pineault, Abbé L., D.Th., D.Ph.,  
 M.A. Prof.

*Neurology*, v. Mental and Nerv.  
 Dis.

*Obstetrics*

De Cotret, E. A. R., M.D. Prof.  
 Langevin, S., M.D. Asst. Prof.  
 Marion, D., M.D. Lectr.

*Ophthalmology, Otology and Rhinology*

Roy, J.-N., M.D. Prof.  
 Boulet, R., M.D. Hon. Asst. Prof.  
 Bousquet, J.-P.-E., M.D. Lectr.

*Orthopædics, Clinical*

Ferron, A., M.D. Prof.  
 Dubé, E., M.D. Asst. Prof.  
 Rivard, J.-H., M.D. Asst. Prof.  
 Crépault, P.-Z., M.D. Lectr.

*Pathology*, v. also Med., Clin.

Leger, A., M.D. Prof.  
 Asst. Profs. :  
 Boucher, R., M.D.  
 Pépin, J. R., M.D.  
 De Guise, R., M.D.  
 Blagdon, L., M.D. (Surg. Path.).  
 Dubé, E., M.D. (Surg. Path.).  
 Paré, A., M.D. (Surg. Path.).  
 Legrand, E., M.D. Lectr.

*Pædiatrics*, v. also Orthopædics, Clin.

Lapierre, G., M.D. Asst. Prof.

*Pharmacology and Therapeutics*

Masson, D., M.D. Prof.  
 Fortier, L. E., M.D. Prof.

*Pharmacy*, v. *infra**Physiotherapy*

Jarry, A., M.D. Prof.

Asst. Profs. :

Verschelden, L., M.D.  
 Mignault, G. E., M.D.  
 Vidal, J.-A., M.D.  
 Cholette, A.-M., M.D. Clin. Lectr.

*Propædæutics*

Hébert, R., M.D. Hon. Prof.

*Radiology, etc.*

Panneton, J. E., M.D. Asst. Prof.  
 Pariseau, L., M.D. Asst. Prof.

*Surgery, Clinical*, v. also Pathol.  
 Marien, A., M.D. Prof.

Saint-Jacques, E., M.D. Prof.  
 Rhéaume, P. Z., M.D. Prof.  
 Dufresne, E., M.D. Hon Asst. Prof.  
 Bourgeois, B.-G., M.D. (also in Urol.) Prof.  
 Asst. Profs. :  
 Hingston, D., M.D.  
 Demers, A., M.D.  
 Gagnon, A., M.D.  
 Saint-Pierre, A., M.D.  
 Derome, W., M.D.  
 Paré, A., M.D.  
 Blagdon, L., M.D.  
 Bellerose, A., M.D.  
 Gariépy, W., M.D.

*Surgery, Operative*

Rhéaume, P.-Z., M.D. Prof.  
 Gagnon, A., M.D. Asst. Prof.

*Toxicology*

Derome, W., M.D. Asst. Prof.  
 Fontaine, R., M.D. Lectr.

*Urology, Clinical*

Bourgeois, B.-G., M.D. Prof.  
 Fournier, N., M.D. Asst. Prof.  
 ..... Asst. Prof.

**Dentistry**

Dubeau, E., D.C.D. Prof.\*  
 Nolin, J., D.C.D. Prof.  
 Charron, E., D.C.D. Prof.  
 Duhamel, J. A., M.D. Prof.  
 Dufresne, G. A. H., M.D. Prof.  
 Marsan, C. R. Prof.  
 Coté, T., D.C.D. Prof.  
 8 Asst. Profs., 4 Lectrs., and 18 Clinicians and Demrs.

Pharmacy, School of  
 Contant, J., D Phm. Prof.  
 Laurence, A.-J., L Phm.  
 Sec.-Dir. and Prof.  
 Lanctôt, H., L.Ph.m. Prof.  
 Vadboncoeur, E., L.Ph.m. Prof.  
 Quintin, A.-D., L.Ph.m. Prof.  
 Boutin, J., L.Ph.m. Prof.  
 Flahault, J., L. ès S. Lille (Chem.) Prof.  
 Pilon, H., L.Ph.m. Prof.  
 5 Asst Profs.

**Social Sciences, School of**  
 v. also *supra* Geog., Hist. and Law

*Social Philos., Econ. and Pol.*  
 Montpetit, E., K.C., LL.D. (Econ. and Pub. Fin) Dir.  
 Forest, R. P. C. (Soc. Philos.).  
 Lamarche, R. P., M.A. (Soc. Philos.).  
 Vanier, G., LL.L. (Comm. Law).  
 Bruchési, J. (Foreign Pol.).  
 Baudouin, J. A., M.D. (Hygiene).  
 Vézina, F. (Manufactures).  
 Tessier-Lavigne, Y. (Polit. Geog.).  
 Saint-Pierre, A.  
 Gouin, L.-M. (Indust. Law and Hist. of Econ.).  
 Perrier, H. (Indust. Law).  
 Doré, V. (Finance).  
 Désy, A. (Indust. Law and Hist. of Econ.).

*Journalism*

Pelletier, G.  
 Fauteux, N. (Hist of J.).  
 Rinfret, Hon. F.  
 Leduc, A. (Law of J.).

\* Dean of the Faculty.

**AFFILIATED INSTITUTIONS**

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. *Director*, R. P. Leopold. 25 other staff and 11 Supts. of Practical Work for : Agr. Botany ; Animal Biology and Hygiene ; Animal Industry ; Animal Pathol. and Bact. ; Apiculture ; Arboriculture ; Aviculture ; Buildings and Accounts ; Chemistry, Geol. and Mineral ; Cereals ; Dairying ; Entomol. ; Food Preservation ; French Fruit and Flower

Gardening; Kitchen Gardening; Large-scale Farming and Machinery; Maths.; Physics; Physiol.; Phytopathol. and Entomol.; Polit. Econ.; Soils; Rural Econ.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. *Director*, Prof. H. Laureys. 11 other Profs., 7 Asst. Profs. and 18 Lectrs. for: Accountancy; Banking; Chemistry; Customs Legislation; Economics; English; French; Geography; Geog., Economic; German; History; Insurance; Italian; Law, Comm. and Indust.; Maths.; Philosophy; Physics; Publicity; Spanish.

OPTOMETRY, SCHOOL OF. *Director*, J. G. Bélanger.

PURE AND APPLIED SCIENCE, including Engineering. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. *Principal*, A. Boyer. *Director*, A. Frigon. 9 Hon. Profs., 13 Profs., 5 Asst. Profs., and 13 Lectrs. for: Architecture; Chemistry; Electricity; Electro-technics; Engineering—Civil, Elec., Mech., and Sanit.; Geology; Geometry; Graphical Statistics; Industrial Chem.; Industrial Legislation; Machine Drawing; Maths.; Mineral; Physics; Public Works; Railways; Strength of Materials; Thermodynamics.

VETERINARY MEDICAL SCHOOL at Oka. President and Emer. Prof., D. Génereux, M.V. *Director*, Le R. P. Léopold. 16 other members of staff for: Anatomy; Aviculture; Bacteriology; Botany; Chemistry; Farriery; Histology; Materia Medica; Milk Inspection; Obstetrics; Parasitology; Pathology; Physiology; Serology; Zootechnics.

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. 15 Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' Coll. or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The Collège Marguerite Bourgeois provides similar College or Arts course for girls.

INSTITUT PÉDAGOGIQUE POUR LES FEMMES. *Directress*, Sister Sainte-Anne-Marie.

INSTITUT PÉDAGOGIQUE ST. GEORGES POUR LES HOMMES, founded 1929. *Director*, Brother Martial-Paulin.

## ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)

CONSERVATOIRE NATIONAL DE MUSIQUE. *Director*, E. Lapierre. 17 staff.

INSTITUT NAZARETH ÉCOLE DE MUSIQUE. *Directress*, Sœur Marie-des-Neiges. 7 other teachers.

ÉCOLE DE MUSIQUE RELIGIEUSE (Schola Cantorum). *Director*, J.-N. Charbonneau. 21 other teachers.

ÉCOLE DE DESSIN.

DOMESTIC ECONOMY, 5 schools.

ÉCOLE DE TOURISME. *Director*, W. Du Cap. 7 teachers.

CONSERVATOIRE LASSALLE (French elocution and oratory). *Director*, G. Landreau.

## INSTITUTIONS ATTACHED TO FACULTIES

SCHOOL OF PUBLIC HYGIENE (École d'Hygiène Publique). *Director of Studies*, Dr. T. Parizeau.

SCHOOL OF APPLIED HYGIENE (École d'Hygiène Sociale Appliquée). *Director*, Dr. J. Baudouin.

RADIUM INSTITUTE. *Director*, Dr. E. Gendreau. Founded, 1922, affiliated to the Radium Institute in Paris, 1923. Hospital attached.

## GENERAL INFORMATION

The Univ. was incorporated under its present name by an Act of the Provl. Legislature on Feb. 14, 1920. For early history, see *Yearbook* for 1929. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated; in 1922 the Faculty of Philosophy was created. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: \$4,000,000 from a national subscription (1920), \$1,000,000 from the Provl. Govt., and \$1,000,000 from the Seminary of St. Sulpice.

LIBRARY, 125,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

FACULTIES. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Pharmacy, and Social, Econ. and Polit. Science.

DEGREES AND DIPLOMAS. Courses in the incorporated and affil. institns. include—a 5 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 3 yrs. in the Éc. de Méd. Comp. for the D. en Méd. Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the L. en Agr., B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.É. Comm. for a L. en Sc. Com. and B. en Sc. Com.

PUBLICATIONS. *Annuaire Général* (June); *La Revue Trimestrielle Canadienne*; *L'Actualité Économique*.

## THE YEAR 1931-32

NEW BUILDINGS in construction on the "Mont-Royal."

VISITS FROM OTHER UNIVS. Dr. Emile Sergent, Academy of Medicine, Paris; M. E. Gilson, Prof. of Mediæval Philos., Univ. of Paris, Director of the Inst. of Mediæval Studies, Univ. of Toronto; R. P. Chenn, Prof., Convent of Saulchoir, Belgium, Organizer of Mediæval Studies of the Dominicans at Ottawa; Dr. G. Déjardin, Prof. of Physics, Univ. of Lyon; Rev. Canon Jean Jean, Prof. of Applied Psychol., Inst. Catholique, Paris; Dr. Georges Lavier, Prof. of Medicine, Univ. of Lille.

DEATHS. Frs-Charles Laberge, ancien prof. à Polytechnique; M. Joseph Versailles, président du Conservatoire national de musique; M. René Labelle, membre du Sénat académique et du Comité exécutif; M. Flavien Laliberté, ancien prof. à la Fac. des arts; Dr. René Hébert, prof. à la Fac. de chirurgie dentaire; Dr. Gustave Archambault, prof. à la Fac. de médecine; Dr. Wilfrid Derome, prof. à la Fac. de médecine; Dr. Albert Lasalle, prof. à la Fac. de médecine; Dr. Charles Larocque, prof. à la Fac. de médecine; F.-C. Fontaine, prof. honor. (Hautes Etudes commerciales); Dr. Arthème Breton, prof. à la Fac. de médecine; Cardinal van Rossum, patron.

HONORARY DEGREES. LL.D.—The Earl of Bessborough, Governor-General

of Canada. *D. de l'Univ.*—The Countess of Bessborough. *D. Ped.*—C. J. Magnan; Sister St. Anne-Marie. *D. Appld. Sc.*—Ernest Longnon.

STUDENTS. Full-time: total, 3456, including 651 graduates. Part-time: total, 4912, including 541 graduates.

DEGREES. B.A., 390; L.Th., 10; B.Th., 8; B.D. Can., 10; LL.L., 16; LL.B., 22; M.D., 34; L. ès S., 1; L. ès Lett., 1; B.C.D., 8; D.C.D., 7; D.M.V., 1; B.S.Ap., 31; B.S.A., 7; L.S.A., 3; L.S.Com., 24; B.Sc.C., 4; Ing. Chim., 1; Lic. Sc. soc. econ. et pol., 16; B. en Pharm., 12; B. en Opt., 3; Dipl. Journ., 7.

# MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—R. C. TAIT, LL.D.

PRESIDENT OF THE SENATE—G. J. TRUEMAN, Ph.D. (Col.), M.A.

SECRETARY AND LIBRARIAN—Prof. F W W DES BARRES, B.A., D.D.

REGISTRAR—Prof. W. M. TWEEDIE, M.A.

## PROFESSORS, LECTURERS, ETC.

*Biology* [Prof.  
Fraser, R., B.S. Tor., M.A. Kansas  
Fawcett, Miss M., B.A. Instr.  
1 Asst.

*Chemistry*  
Bigelow, H. E., Ph.D. Harv. Prof.  
Cuthbertson, A. C., Ph.D. McG.  
Asst. Prof.

Instructors :  
Marsden, J., B.Sc.  
Patton, J. R., B.Sc.  
Steeves, W. H., B.Sc.

*Classics* [Wood Prof.  
Cohon, J. W., Ph.D. Princeton  
Wall, Georgie M., B.A. Instr.

*Commerce and Economics*  
Guy, N. M., M.A. Harv. (on leave)  
Joseph L. Black Prof.  
Tucker, Rev. H., Ph.D. Hartford  
Prof.  
2 Assts.

*Contracts*  
Richard, E. René, B.A. St. J.,  
LL.B. Dal. Lectr.

*Education* [Prof.  
Trueman, G. J., M.A., Ph.D. Col.  
Baxter, C., Ph.D. Asst. Prof.  
Flemington, Rev. W. T. R., M.A.,  
B.Pæd. Tor. Lectr.

*Engineering*  
McKiel, H. W., B.A., B.Sc. Qu.  
(Mech.E.) Prof.  
West, F. L., M.A., B.Sc. McG. Prof.

..... Asst. Prof.  
*English Lang. and Lit.*  
Tweedie, W. M., M.A. Lond.  
Allison Prof.  
Trueman, A. W., B.A. Ox.

Asst. Prof.  
1 Asst.

*French*  
Trethewey, W. H., M.A. Tor. (on  
leave) Prof.  
Guay, R. (Fr. Conversation) Instr.  
Brewer, Stella M., B.A. Ox Instr.  
2 Assts.

*German*  
Colby, C. C., M.A. Harv. Prof.  
*History* [Prof.  
Des Barres, F. W. W., B.A., D.D.

*Homiletics*  
Mackinnon, Clarence, M.A., LL.D.  
Dal. Lectr.

*Household Science* [Hd of Dept.  
Runciman, Doris, B.Sc. Col.  
2 Teachers, 1 Instr.

*Mathematics* [Prof.  
Hunton, S. W., B.A. Lond., M.A.  
McEwen, W. H., M.Sc. Sask., Ph.D.  
Wisc. Asst. Prof.

*New Testament Exegesis*  
Brecken, E. R., M.A., D.D. Prof.\*  
*Philosophy* [Massey Prof  
Krug, C. A., M.A., B.D. Tor.  
1 Asst.

<i>Physics</i>	Sparks, F. W., B.A.	Instr.
MacGregor, D. G., M.A. Ox. Prof.	1 Asst.	
Nickerson, J. L., M.A. Princet.	<i>Sociology</i>	
Asst. Prof.	Pickard, Jean C., B.A.	Instr.

## GENERAL INFORMATION

Mount Allison University was founded as a degree-giving body in 1858 under the name "Mt. Allison Wesleyan College." For early history, see *Yearbook*, 1929.

The UNION CHURCH of Canada controls the administration on strictly non-sectarian principles; many students belong to other religious denominations.

**LIBRARY**, 30,000 vols. **Engineering WORKSHOPS** with gasoline engine, etc.

**FACULTIES**. Arts, Sci., Sch. of Appl. Sci., Dept. of Household Sci.

**DEGREE COURSES**. 5 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (e.g. N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Coll. High Honour Diploma to 3rd yr.

**HIGHER DEGREES**. Open to B.A. with Hons. of 1 yr.'s standing, M.A.; to B.Sc. with Hons. of 1 yr.'s standing, M.Sc.; Honorary, LL.D., D.C.L.

**CERTIFICATES**. Appl. Sci., 2 yrs.' course may be taken as part of 3rd and 4th yrs. of B.A., or B.Sc. (see p. 411); Finance and Com., 2 yrs.; Secretarial, 4 yrs.

**FEES**, tuition and registration, annual: Arts, \$154 for 5 subjects; Engin., \$144-\$174.

**RESIDENCE**. Accommodation in the Univ. for 220 men and 100 women.

**PUBLICATIONS**. *Calendar* (June); *Argosy* (students'), weekly, and *Mt. Allison Record*, monthly; the Webster and the Wood lectures.

## THE YEAR 1931-32

**RETIREMENTS**. L. W. Shaw (Education) and Ian MacLachlan (Engin.) resigned.

**HONORARY DEGREES**. LL.D.—Sir Herbert Ames, Fletcher Peacock, James C. Simpson, Obed. E. Smith, George S. Whitby.

**STUDENTS**. Full-time: total, 420, including 4 graduates. Part-time: total, 32, including 5 graduates. Extens. Dept., 60; Summer School, 221.

**DEGREES**. B.A., 55; B.Sc., 13; B.Sc. (Househ. Sci.), 11.

# UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H M. THE KING—THE LIEUT.-GOVERNOR OF  
NEW BRUNSWICK.

PRESIDENT—C. C. JONES, M.A., Ph.D., LL.D.

REGISTRAR—J. W. SEARS, B.A. Ox.

## PROFESSORS AND LECTURERS

*Biology* [Prof.  
Argue, C. W., B.A., M.Sc. McGill

*Chemistry*  
Toole, F. J., Ph.D. McGill, M.Sc.  
Prof.  
Wright, R. H., Ph.D. McGill, B.A.  
Asst. Prof.

*Classics and Anc. Hist.* [Prof  
Cattley, R. E. D., B.A. Camb.

*Economics and Politics*  
Keirstead, B. S., B.A. Ox. Prof.

*Engineering*  
Turner, E. O., S.B. Mass. I. Tech.  
(Civil E.) Prof.  
Stephens, J., M.A., M.A.I. Dub.,  
M.I.C.E.I., D.Sc. (Mech. E.  
and Drawing) Prof.  
Hagerman, E. W., B.Sc. Demr

*Engineering, Electrical*  
Baird, A. F., M.Sc. Prof.

*English and Mod. Hist.*  
McPherson, M., M.A. Edin. Prof.

*Forestry*  
Gibson, J. Miles, B.Sc. Prof.  
Flieger, B. W., B.Sc. Asst. Prof.

*French and German*  
Pugh, R. W. B., B.A. Ox. Prof.

*Geology*  
Wright, W. J., Ph.D. Yale,  
F.R.S.C. Prof.  
Perry, S. C., M.A. Tor. Asst Prof.

*Law*  
Lecturers :  
Richards, C. D., B.A., LL.D.  
(Contracts and Real  
Property).  
Hughes, P. J., B.A.  
(Torts, Crimes).  
Winslow, J. J. F., B.A.  
(Procedure).

At St. John :  
Hazen, Sir Douglas, C.J.,  
K.C.M.G., B.A., LL.D.  
Dean of Faculty.  
McInerney, H. O., M.A., B.C.L.,  
LL.D. Prof.  
15 Part-time Lectrs.

*Mathematics*  
The President Prof.  
Jones, W. G., B.Sc. Asst. Prof.

*Philosophy and Education*  
Keirstead, W. C., Ph.D. Chic.,  
M.A., D.C.L. Acadia Prof.

*Physics*  
Priestman, B., B.A. Camb., M.Sc.,  
Ph.D. McGill Prof.  
Donaldson, G. W., B.A. Demr.

## GENERAL INFORMATION

The "College of New Brunswick" was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as "King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of



Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the President and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* a member. The annual grant from Provincial revenues is \$25,000.

**LIBRARY** 25,000 vols. **MUSEUMS:** Natural History (rich in birds). **LABORATORIES:** Bot., Chem., Engin., Geol., Phys., Psych. **OBSERVATORY:** Telescope with 6" clear aperture.

**DEPARTMENTS.** Arts, Applied Science (Engineering and Forestry), Law.

**DEGREE COURSES.** 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year.

**HIGHER DEGREES.** Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 3 yrs.' standing, M.Sc.; to B.A. of 6 yrs.' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

**FEES,** tuition, annual: Arts, \$86, Engin. or Forestry, \$120.

**PUBLICATION.** *Calendar* (January); *Brunswickan* (Students' weekly).

## THE YEAR 1931-32

**BENEFACTIONS.** Provincial Government additional assistance, \$15,000. Library, late Rt. Hon. Sir Geo. E. Fisher.

**STUDENTS.** Full-time: total, Arts and Pure Science, 384; Law, 12.

**DEGREES.** B.A., 26; M.A., 3; B.Sc., 8; B.Sc. (Civil Engin.), 4; B.Sc. (Elec. Engin.), 19; B.Sc. (Forestry), 11; B.C.L., 6.

## UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—Most Rev. G. FORBES, D.D., Archbishop of Ottawa

RECTOR—Very Rev. G. MARCHAND, O.M.I., D.Ph., D.D.

VICE-RECTOR—Rev. A. LAJEUNESSE, O.M.I., M.A., L.Ph., D.D.

SECRETARY—F. X. MARCOTTE, O.M.I.

TREASURER—Rev. L. BOUVET, O.M.I., B.A.

PREFECT OF STUDIES—Rev. J. GRAVEL, O.M.I., B.A., L.Ph.

PREFECT OF DISCIPLINE—Rev. A. CARY, O.M.I., B.A., L.Ph.

### PROFESSORS

[t=Faculty of Theology, cl=Faculty of Canon Law, p=Faculty of Philosophy, a=Faculty of Arts, ss=Superior School of Theology, Canon Law and Philosophy, ns=Normal School, sm=School of Music.]

- |  |  |
|--|--|
| Barabé, H., O.M.I., B.A., L.Th.—t.                                 | Hébert, J., O.M.I., D.Ph., L.Th.—p, a.             |
| Béchar, J., B.A.—ns.   | Julien, O., M.A., L.Ph.—a.                         |
| Boyon, J., O.M.I., D.Litt.—a                                       | Lajeunesse, A., O.M.I., M.A., L.Ph., D.D.—a, ns.   |
| Bradley, Rev. F., D.Ph., L.C.L.—a.                                 | Lamoureux, R., O.M.I., D.Ph.—ns.                   |
| Caron, A., O.M.I., L.Ph., D.D., D.C.L.—t, cl.                      | Latour, C., O.M.I., L.Ph., L.Th.—sm.               |
| Cary, A., O.M.I., B.A., L.Ph.—a.                                   | LeBel, M. W., B.A., L.Ph., M.D., C.M., L.M.C.C.—a. |
| Champagne, F.—sm.  | Leblanc, R., O.M.I., D.Ph., L.Th.—p.               |
| Charbonneau, Very Rev. J., P.A., V.G., D.Ph., D.D., D.C.L.—cl, ss. | Leclerc, A., O.M.I., L.Litt., L.Ph., L.Th.—a.      |
| Charbonneau, N.—sm.  | Logan, J.—ns.                                      |
| Cornellier, L. P., O.M.I., D.Ph., D.D.—p, a.                       | Marcotte, F. X., O.M.I., D.Ph., D.D.—a.            |
| Deschatelets, L., O.M.I., L.Ph., D.D., L.C.L.—t, sm.               | Pelletier, A., O.M.I., M.A.—a.                     |
| Desnoyers, A., O.M.I., D.Ph., D.D.—t, cl.                          | Perbal, A., O.M.I.—ss.                             |
| Devy, V., S.M.M., D.D.—ss.   | Poulet, D., O.M.I., L.Ph., D.D., L.S.S.—t.         |
| Dubé, H., O.M.I., D.Sc., D.Ph., L.Th.—a.                           | Renaud, E., O.M.I., B.A., L.Ph.—a.                 |
| Fontaine, P.—ss.   | Richard, E.—sm.                                    |
| Gendron, J., O.M.I., D.Ph., L.Th.—p.                               | Rousseau, J., O.M.I., D.Ph., D.D., D.C.L.—cl.      |
| Guay, A., O.M.I., L.Ph., L.Th.—p.                                  |  |
| Guertin, A., O.M.I.—a.   |  |

Saint-Denis, H., O.M.I., D.Ph., D.D., B.Ped.—ss.	Simard, G., O.M.I., D.Ph., D.D.— t, ss.
Saint-Denis, R., B.A., L.Ph.—ns.	Tassé, A.—sm.
Sauvé, G., O.M.I., D.Ph., L.Th., D.C.L.—p.	Thivierge, E., O.M.I., L.Ph.—a
	Trudel, R., O.M.I., D.Ph.—p.
	Watson, E., B.A., L.Ph.—ns.

## GENERAL INFORMATION

The "College of Bytown," incorporated in 1849, changed its name in 1861 to "College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

**AFFILIATED INSTITUTIONS.** Congrégation de Notre-Dame, Ottawa; Convent of Our Lady of the Sacred Heart, Ottawa; Mother-House of the Grey Nuns of the Cross, Ottawa; Convent of Notre-Dame de Lourdes, Ottawa; Mathieu College, Gravelbourg, Saskatchewan; The Grand Seminary, Ottawa; The Vianney School, Ottawa; Sacred Heart College, Regina, Sask.; Juniorate of St. John the Apostle, Edmonton, Alta.; Collège Thévenet, Gravelbourg, Sask.; Ottawa General Hospital (Training School for Nurses); St. Teresa Academy, Medicine Hat, Alta.; Convent of the Sisters of Providence of St. Brieux, Prud'homme, Sask.; Hotel-Dieu Hospital (Training School for Nurses), Kingston, Ont.; Sudbury Hospital (Training School for Nurses), Sudbury, Ont.

**LIBRARY,** 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. **MUSEUMS:** In the Univ.—Geol.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. **LABORATORIES:** Chem., Phys., Biol.

**DEGREES, ETC.** B.A., M.A., B.L. (Lit.), B.Ph., B.Th., D.D., LL.D. (Hon.), L.Ph., D.Ph., L.Th., B.C.L. (Canon Law), L.C.L., D.C.L., D.Sc., L.Litt., D.Litt. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fifth to the Eighth "Forms," that of the first 4 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.Th. and the L.Th. involve respectively 2 and 3 yrs.' study of Theology after the completion of a classical course; the B.Ph. and the L.Ph. respectively 3 and 4 yrs.' study after matricn. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

**COURSES OF STUDIES.** High School (classical or commercial), Arts Course (complete), Normal School (for teachers in the bilingual schools of Ontario), Pre-Medical Course, Religious Music (leading to the certificate of Choir Master), Social Science (weekly lectures), Philosophy (4-yr. course for the degree of D.Ph.), Canon Law (3-yr. course for the degree of D.C.L.), Theology (5-yr. course for the degree of D.D.), Evening Courses (for High School and Arts subjects), Summer Courses (in Pedagogy, Gregorian Chant, etc.).

**FEES.** For Tuition and Board Residence per year, \$300. Degrees from \$5 to \$75.

**RESIDENCE.** Students whose homes are not in Ottawa are required to live in the Univ. building, where they are subject to strict discipline—e.g.

no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

### THE YEAR 1931-32

NEW BUILDINGS. Chapel for the students, Gymnasium, Normal School, Stadium.

NUMBER OF STUDENTS. Total, not incl. summer courses, extension courses, and affiliated institutions, 1143.

HONORARY DEGREES. *LL.D.*, one.

DEGREES. B.A., 39; M.A., 3; B.L. (Lit.), 0; D.Lit., 0; B.Ph., 46; L.Ph., 42; D.Ph., 12; B.Th., 15; L.Th., 7; B.C.L. (Bach. of Canon Law), 6; L.C.L., 1; D.C.L. (Dr. of Canon Law), 1; B.Sc., 1; Diplomas in Nursing, 5.

# QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—JAMES RICHARDSON, B.A., LL D.

PRINCIPAL AND VICE-CHANCELLOR—WILLIAM HAMILTON FYFE, M.A.  
Ox.

RECTOR—O. D. SKELTON, M.A., Ph D.

VICE-PRINCIPAL AND TREASURER—W. E. MCNEILL, M.A., Ph.D.

REGISTRAR—ALICE KING.

LIBRARIAN—E. C. KYTE.

## PROFESSORS, LECTURERS, ETC.

### *Accounting*

Walker, C. E., C.A. Assoc. Prof.  
Smails, R. G. H., A.C.A.

Assoc. Prof.

*Anatomy*, v. also Med.—Obs.,  
Surg.

Matheson, D. C., M.B. Prof.  
3 Fellows.

*Banking*, v. Pol. Econ.

### *Biology*

MacClement, W. T., D.Sc. Armour  
Inst., M.A. Allan Prof.  
Earl, R. O., M.Sc. Chic., B.A.,  
Ph.D. Chic. Prof.  
Stanley, John, B.A. Br. Col., Ph.D.  
Minn. Asst. Prof.  
Krotkov, G., B.S.A. Prag. Lectr.

*Chemistry*, v. also Engin. [Prof.

Neish, A. C., M.A., Ph.D. Col.

McRae, J. A., M.A., Ph.D., F.I.C.  
Prof.

Frost, G. B., B.A. Tor., Ph.D. Cal.  
Asst. Prof.

Munro, L. A., M.A. Dal., Ph.D.  
McG. Asst. Prof.

Dorrance, R. L., B.A. Tor.  
Asst. Prof.

12 Tutors.

### *Chemistry, Biological*

Logan, J. F., B.A. Acadia, Ph.D.  
Yale Assoc. Prof.

### *Classics*

Callander, T., M A. Aberd. and Ox.  
(Greek) Prof.

Law, L. E., B.A. Lond. and Ox.  
Asst. Prof.

Jolliffe, R. O., Ph.D. Chic. (Latin)  
Prof.

Tracy, H., B.A., Ph.D. Prof.  
Macdonnell, Mary L., M.A.

(Latin) Lectr.

Shurtleff, H S., Ph.D. Yale, B.A.  
Lectr.

### *Commerce*, v. also Accounting

Clark, W. C, Ph.D Harv., M.A.  
Prof.

Curtis, C. A., B.A. Tor., Ph.D.  
Chic. Assoc. Prof.

### *Economics*, v. Polit. and Econ. Sc.

### *Engineering*, v. also Mining E.

Macphail, A. J., C.M.G., B.Sc.  
(General E.) Prof.

Arkley, L. M., M.Sc. (Mech. E.)  
Prof.

Goodwin, L. F., Ph.D. Heid.,  
A.C.G.I., F.I.C. (Indust. and  
Chem. E.) Prof.

Wilgar, W. P., B.Sc. (Civil E.) Prof.  
Malcolm, L., M.A., B.Sc. (Munic.  
E.) Prof.

Jemmett, D. M., M.A., B.Sc.  
(El. E.) Prof.

- Ellis, D. S., M.A., B.Sc. (Civil E.) Prof.  
 Rutledge, L. T., B.A.Sc. (Mech E.) Assoc. Prof.  
 Jackson, A., B.Sc. (Draughting) Assoc. Prof.  
 Morgan, S. C., B.Sc. Asst. Prof  
 9 Tutors, 7 Demrs., 3 Instrs.  
*English* [Prof.  
 Clarke, G. H., M A. McM., D.Litt.  
 Roy, J. A., M.A. Edin. Prof.  
 Alexander, H., M.A. Liv. Assoc. Prof.  
 Gordon, Miss W., M.A. Assoc. Prof.  
 Irvine, M., M.A. Lectr  
 Duthie, E. E., M.A. Lectr.  
 6 Readers, 6 Tutors  
*French* [Prof.  
 Campbell, P. G. C., M.A. Ox.  
 Tirol, M., L. ès L. Paris, Ph.D. Lond., O.A. Assoc. Prof.  
 Conacher, W. M., B.A. Lond., D. ès L. Montr. Assoc. Prof  
 Walpole, H., B.A. Camb. Lectr.  
 McConnell, Mme. B. S. Instr.  
*Geology* [Prof.  
 Baker, M. B., B.A., B.Sc., F.G.S.A.  
 Bruce, E. L., M.A., Ph.D. Col. Miller Memorial Prof.  
 Rose, B., Ph.D. Yale, B.Sc. Assoc. Prof.  
*German*  
 Henel, H., Ph.D. Frankf. Prof.  
 Laird, Hilda C., B.A. (Dean of Women) Asst. Prof.  
 Bockstahler, O. L., M.A., Ph.D. Mich. Asst. Prof.  
*Hebrew*, v. Semitic Langs.  
*History*  
 McArthur, D. A., M.A. Prof. of H. and Douglas  
 Prof. of Canadian and Colonial H.  
 Prince, A. E., M.A. Ox. and Manc., B.Litt. (English H.) Assoc. Prof.  
 Trotter, R., B.A. Yale, M.A., Ph.D. Harv. Assoc. Prof.
- Harrison, W. E. C., M.A. Lond. Lectr.  
 1 Fellow, 3 Tutors.  
*Italian*, v. Romance Lang.  
*Mathematics*  
 Matheson, J., M.A., Dean of the Faculty of Arts Prof.  
 Gummer, C. F., M.A. Ox., Ph.D. Chic. Prof.  
 Miller, Norman, Ph.D. Harv., M.A. Prof.  
 Johnston, K. P., M.A., B.Sc. Asst. Prof.  
 Edgett, G. L., M.A. Mt. All., Ph D. Ill. Lectr.  
 Stewart, J. D. Lectr.  
 ..... Lectr.  
 Newlands, Mrs. Etta, M.A. Instr.  
 8 Tutors.  
*Medicine*, v. *infra*  
*Metallurgy*  
 MacKay, G. J., B.Sc. Prof.  
 Carson, O. A., M.A. Col., B.Sc. Asst. Prof.  
 ..... Lectr.  
*Mineralogy*  
 Hawley, J. E., M.A. Prof.  
*Mining Engineering*  
 Graham, S. N., B.Sc. Prof.  
*Philosophy*  
 Humphrey, Geo., B.A. Ox., Ph.D. Harv. Prof.  
 Vlastos, G., Ph D. Harv. Asst Prof.  
 1 Tutor.  
*Physics* [Prof.  
 Clark, A. L., B.Sc. W.P.I., Ph.D. Dean of Fac. of Appl. Sc.  
 Baker, W. C., M.A. (Expl. P.) Prof.  
 Gray, J. A., D Sc. Manc, F.R.S. Chown Research Prof.  
 Robertson, J. K., M.A. Tor. Prof.  
 Flammer, E., B.Sc. Calif., Ph.D. Harv. Prof  
 Lecturers :  
 Watson, E. E., M.Sc. McG.  
 Sargent, B. W., M.A.  
 Cave, H. M., M.A.  
 2 Tutors.

*Physiology*

Melvin, G. S., M.D. Aberd. Prof.  
 Ettinger, G. H., B.A., M.D., C.M.  
 Asst. Prof.

1 Fellow.

*Political and Econ. Science*

Mackintosh, W. A., Ph.D. Harv.,  
 M.A. Macdonald Prof.  
 Rogers, N. M., M.A. Assoc. Prof.  
 Knox, F. A. Asst. Prof.  
 3 Tutors in Econ. and Banking.

*Romance Lang. and Lit*, v. also  
French

Brovedani, J. H., D. ès L. Rennes  
 (Span. & Ital.) Prof.  
 Lanigan, J., B.S. Harv. Instr.

*Semitic Langs. and Lit.*

Jordan, W. G., B.A. Lond., D.D.  
 Prof. Emer.  
 Kent, H. A., M.A., D.D. (Hebrew)  
 Prof.

*Spanish*, v. Romance

## Medicine

(for subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Anæsthetics*, v. Surg.*Bacteriology*

Reed, G. B., M.A., B.Sc., Ph.D.  
 Harv. Prof.  
 Orr, J. H., M.D., C.M. Asst. Prof.

*Electro-Therapy*, v. Mat. Med.*Embryology*

[Asst. Prof.]  
 Ettinger, G. H., B.A., M.D.

*Gynæcology*

Mylks, G. W., M.D. Prof.  
 Morison, M. J., M.D. Lectr.

*Materia Med.*

Gibson, T., M.D., M.A., M.B.  
 Edin. Prof.  
 Quigley, J. P., M.A., M.D.,  
 M.R.C.S. Eng., L.R.C.P.  
 Lond. (Lectr. in Electro-  
 Therapy) Asst. Prof.

*Med. Jurispr. and Toxicology*

Gardiner, R. J., M.D., C.M. Lectr.  
 Rigney, T. J., B.A., K.C. Lectr.

*Medicine and Clin. Med.*

Connell, W. T., M.D., M.R.C.S.  
 Eng., L.R.C.P. Lond. Prof.  
 Gibson, W., M.D.

(Med.) Assoc. Prof.

MacCallum, E. C. D., M.D., C.M.  
 McG. (Med.) Assoc. Prof.

Third, J. R., B.A., M.D. Lectr.  
 Hopkins, B. H., M.B. Tor. Lectr.  
 Macdonnell, P. M., B.A., M.D.

Clin. Asst. & Historian.

Bird, G. H., M.B. Clin. Asst.

*Obstetrics*

Mylks, G. W., M.D. Prof.  
 O'Connor, F. J., M.D., C.M.

Lectr.

Huyck, P. H., M.D. Clin. Asst.

*Ophth., Ot., Laryng. and Rhin.*

Cays, F. A., M.D., C.M.  
 Assoc. Prof.  
 Connell, H. C., B.A., M.D., C.M.  
 Clin. Asst.  
 Folger, H. P., B.A., M.D., C.M.  
 Clin. Asst.

*Pathology*

Miller, J., B.Sc., M.D. Edin., D.Sc.  
 Birm. Prof.  
 Hay, W. D., M.A., M.D., C.M.  
 (Lectr. in Clin. Microscopy)  
 Asst. Prof.

*Pediatrics*

[Prof.]  
 MacGregor, R. R., M.D., C.M.

*Physiology*

Melvin, G. S., M.D. Aberd. Prof.  
 Ettinger, G. H., B.A., M.D.  
 Asst. Prof.

*Preventive Medicine*

Wyllie, J., M.B., Ch.B., B.Sc.  
 Glas., D.P.H. Camb.  
 Arthur R. Elliott Prof.

*Psychiatry*

..... Prof.

*Surgery*

Austin, L. J., M.Ch. Camb.,  
 F.R.C.S. Eng. (Clin. S.) Prof.

Etherington, F., C.M.G., M.D.	Sparks, J. F., B.A., M.D., C.M. (S. and Appl. Anat.)
Prof. and Dean.	Assoc. Prof.
Gardiner, R. J., M.D., C.M.	Bogart, I. G., M.D., C.M.
Asst. Prof.	Assoc. Prof.
Keyes, S. J., M.D., C.M. (Lectr. in Anæsthetics)	<i>X-ray and Physiotherapy</i>
Asst. Prof.	Jones, W. A., M.D. West Asst. Prof

## AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE. Principal and Prof. of Old Test. Criticism and Exegesis, H. A. Kent, M.A., D.D. 5 other Profs.

## GENERAL INFORMATION

Queen's College, Kingston, was founded by Royal Charter in 1841. For early history, see *Yearbook* for 1929.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

**LIBRARY**, 130,000 vols (valuable Canadian Historical Section). The Douglas Library: 85,000 vols. and pamphlets, including many scarce books and early eds. of valuable historical works. The Reading-room has over 4000 vols. on open shelves, and 800 periodicals. The Lorne Pierce collection of modern Canadiana is among the best in existence, and the Shortt-Haydon collection of pictures and portraits of Canadian interest is probably unexcelled. **MUSEUMS**: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American Stone Age collection). **LABORATORIES**, including important School of Mines buildings: Biol. (accommodating 220 students), Chem., Geol., Physics, Engin., Mining, Metall., Mineral. **OBSERVATORY** with 6" telescope. **HOSPITALS** available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

**FACULTIES**. Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

**DEGREE COURSES**. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc., B.A. and B.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence. All candidates for degrees must take in residence 9 of the 19 courses required for the Pass degree. Some of these may be covered at the Summer School of 7 weeks during July and Aug., but the exams written are the regular Sept. exams. set for all students.

**Banking** Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certifi., is given by the Univ.

**HIGHER DEGREES**. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs.' professional practice); Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

**DIPLOMAS**. Testamur in Theology (3 yrs.' course).



FEES (Class and Examn.) in Arts, \$120 p.a. ; Science, \$200.

SCHOLARSHIPS AND FELLOWSHIPS. There are 38 scholarships for students of the Univ., varying in value from \$25 to \$150 p.a. The *Sir James Aikins Fellowship* in Canadian Hist., \$500, open to distinguished students for further work in this subject. *George Christian Hoffmann Fellowships* (1) for Patholog. research, \$1000, (2) for further study in Surg., \$750, both to enable holder to study in some inst. or Univ. in Europe or U.S.A. approved by Senate. For 4 Arts Research Fellowships and the *Milton Hersey Fellowship* in Chem. v. App. XXIII.

RESIDENCE with rooms for 117 women and refectory accommodation for 180. Board and lodging, \$8.25 to \$9.00 a week. The Students' Union provides meals for men at \$6 to \$8 a week ; accommodates about 200.

UNIVERSITY EXTENSION. See above—Degree Courses. A course of weekly lectures is open to the public, and lectures are given by members of the staff at various centres in Ontario.

PUBLICATIONS. *Calendars* (by Faculties) ; *Queen's Quarterly* ; *Queen's Univ. Journal*.

## THE YEAR 1931-32

BENEFACTIONS AND GIFTS. \$10,000 from Dr. Thomas B. Foley of Boston, for 4 Scholarships in Medicine.

NEW BUILDINGS. Complete renovation of the Old Arts Building.

CHANGES IN REGULATIONS. The new Hons. Course in Arts requiring 23 courses for a degree introduced ; academic grading raised from 55-60 per cent for 3rd class hons.

DEATH. A. B. Klugh, Assoc. Prof. of Biol., killed by motor accident, June 1, 1932.

HONORARY DEGREES. *D.D.*—James Shortt, John Rolland Hall. *LL.D.*—Joseph Amable Thomas Chapais, William Stuart Kirkland, Margaret O'Hara.

STUDENTS. Full-time : Arts, 958 ; Science, 429 ; Medicine, 301 : total, 1688. Summer School and Banking and Accounting, 2791.

DEGREES. M.A., 16 ; B.A. (Hon.), 70 ; B.A. (Pass), 105 ; M.Com., 1 ; B.Com., 22 ; M.Sc., 5 ; B.Sc. (Hon.), 12 ; B.Sc. (Pass), 53 ; M.D., 45 ; B.D., 2.

# UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

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BURSAR—Very Rev. D. C. MACKAY, B.A.

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DIRECTOR OF STUDIES—Rev. Prof. R. K. MCINTYRE, B.Sc., M.A.

## PROFESSORS, LECTURERS, ETC.

*Biology*  
Chisholm, Rev. J. C., M.A. Prof.

*Chemistry*  
Mullins, E., Ph.D. Cath. Univ. of  
Amer. Prof.  
McIntyre, Rev. R. K., M.A. Cath.  
Univ. of Amer. Prof.

*Classics*  
MacPherson, Very Rev. H. P.,  
D.D. Laval, D.C.L. Kings  
(Latin) King's Prof.  
Sears, Rev. L. B., M.A. Ox. Prof.

*Commerce*  
O'Brien, J. F., M.B.A. Harv. Prof.

*Economics and Sociology*  
MacDonald, Rev. D. J., M.A.,  
Ph.D. Cath. U. Am. Prof.

*Education*  
Coady, Rev. M. M., D.D. Urb.,  
Ph.D. Prof.  
Chaisson, A. F., M.A., Ed.M.  
Harv. Assoc. Prof.

*Engineering*  
Clarke, T. G., B.Sc., N.S.T. Prof.  
Eager, R. F., M.E. Consulting E.

*English Lit.*  
..... Prof.  
Kenney, J. L., Ed.M. Harv.  
Assoc. Prof.

*French*  
Roche, A. J., L. ès L. Paris  
Carnegie Prof.  
Raiche, Rev. J. F., M.A. Prof.

*Gaelic*  
Nicholson, Rev. Prof. P. J. Lectr.

*Geology and German*  
MacPherson, Rev. H., Ph.D. Urb.,  
D.D. Rome Prof.

*History*  
Somers, Rev. H. J., Ph.D. Cath.  
U.A. Prof.

*Italian*  
Sears, Rev. Prof. L. B. Prof.

*Mathematics*  
McKenna, Rev. L. G., M.A. Prof.  
Clark, G. L., B.Sc. N.S.T.  
Assoc. Prof.

*Philosophy*  
MacEachern, Rev. M., S.T.L.  
Mont. Prof.

<i>Physics</i>		<i>Religion</i>	
Nicholson, Rev. P. J., M.A., Ph.D.		MacKay, Very Rev. D. C., B.A.	[Prof.]
J. Hopk.	Prof	<i>Extension Department</i>	[Prof.]
Burgess, A., M.A.	Lectr.	MacDonald, A. B., B.S. A. Tor.	
		Coady, Rev. Prof. M. M.	

## GENERAL INFORMATION

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The University is under the direction of the Catholic Church, but there are no religious tests for entrance or for degrees. The recent Neil McNeil bequest for endowment is valued at \$600,000. A further \$200,000 will become due on the death of beneficiaries now receiving interest.

**LIBRARY**, 45,000 vols. **LABORATORIES** · Biol., Chem., Geol., Phys.

**COURSES.** 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical Colls of Canada and U.S.A.); graduate 1 yr. course for M.A.

**EXPENSES.** Board and dormitory, \$6 per week; private room, \$2 per week; tuition for session, \$85; laboratory, \$5 to \$10, degree, \$5 to \$10.

A **SUMMER SCHOOL** under direction of Prof. P. J. Nicholson. **Extension courses** directed by Prof. M. M. Coady, D.D., Ph.D.

**PUBLICATIONS.** *Calendar* (July); *Xaverian*, weekly.

## THE YEAR 1931-32

**STUDENTS.** Full-time: total, 299, including 6 graduates.

**DEGREES.** B.A., 17; B.Sc., 12; M.A., 3; LL.D., 3.

# UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—HON H. E. MUNROE, O.B.E., M.D.

CHANCELLOR—SIR F. W. G. HAULTAIN, LL.D., D.C.L.

CHAIRMAN OF GOVERNORS—HON P. E. MACKENZIE, B.A., LL.B.

PRESIDENT—W. C. MURRAY, M.A., LL.D., F.R.S.C

REGISTRAR—A. R. WEIR, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		
Neilson, J., B.Acc.	Prof.	Grubb, A. C., Ph.D. Chic.
Graham, D. J.	Lectr.	Larmour, R. K., Ph.D. Minn., M.Sc.
<i>Agriculture, v. infra</i>		Vigfusson, V. A., Ph.D. Wis.
<i>Anatomy</i>		
MacGibbon, R. T., M.B., C.M. Glas.	[Prof.	Asst. Prof.
Novokshonoff, M. C., M.D. Man.	Instr.	Spinks, J., D.Sc. Lond.
		Fraser, J. H., M.Sc.
<i>Bacteriology and Pathology</i>		
Lindsay, W. S., O.B.E., B.A. Dal.,	Prof.	<i>Classics</i>
M.B. Edin.	Prof.	Sullivan, W. G., M.A. Dub.
Rea, George, M.B., Ch.B., D.P.H.	Prof.	Ramsay, W., B.A. Qu., Ph.D.
Belf.	Prof.	Chic.
Rayner, N.	Asst.	Ferguson, R. M., B.A. Dub.
<i>Biblical Literature</i>		
Morton, A. S., M.A. Edin., D.D.	Prof.	<i>Economics</i>
Hal.	Prof.	Swanson, W. W., Ph.D. Chic.
Orton, A. S., S.T.D.	Lectr.	M'Queen, R., M.A. Alb.
<i>Biology</i>		Fowke, V., M.A.
Thompson, W. P., M.A. Tor.,	Prof.	Britnell, G. E., B.A.
Ph.D. Harv., F.R.S.C.	Prof.	<i>Education</i>
Fraser, W. P., B.A. Dal., M.A.	Prof.	Quance, F. M., M.A. Alta, Ph.D.
Corn., M.Sc. McG.	Prof.	Col.
Asst. Profs. :		Laycock, S. R., B.A. Tor., Ph.D.
Saunders, L. G., Ph.D. Camb.		Lond.
Rawson, D. S., Ph.D. Tor.		Glinz, R. A., M.A. Col., Ph.D.
Vanterpool, T. C., M.Sc. McG.		Stanf.
Rempel, J. G., B.A.	Instr.	<i>Engineering, v. infra</i>
<i>Chemistry</i>		
Thorvaldson, T., B.A. Man., Ph.D.		<i>English</i>
Harv., F.R.S.C.	Prof.	Wilson, R. A., Ph.D. Qu.
Manning, R. J., B.A. Tor., D.Sc.	Prof.	Lothian, J. M., M.A. Glas.
Brist.	Prof.	Bayer, Jean G., M.A. Dal.
Basterfield, S. L., B.Sc. Lond.,	Prof.	Matheson, M., M.A. Qu.
Ph.D. Chic.	Prof.	Bentley, J. A., Ph.D. Harv.
		Brown, Edith, B.A. Lond., "
		McKenzie, Edith J., B.A. Sask.
		King, C. A., Ph.D. Tor.

- French* [Prof. Woods, Esli, B.S.P. Dean.  
MacDonald, J. A., M.A. Harv. Rodman, F. B., B.Sc., B.S.P.  
Cameron, Margaret, B.A. McG., Instr.  
M.A. Rad., D. de l'U. Paris Demr.  
Prof. Black, F. G.
- Philosophy*  
Shellburg, G. E., Ph.D. Chic. Sharrard, J. A., M.A. Tor. Prof.  
Instr. Bateman, J. V., M.A. Dub. Prof.  
Instr. Markle, W. B., S.T.D., Ph.L. Lectr.
- Geology*  
Mawdsley, J. B., B.A. McGill, Cartwright, Ethel M. Prof.  
Ph.D. Princ. Prof. Griffiths, E. W. Instr.
- Physics*  
Edmunds, F. H., M.Sc. Liv. Prof. Harrington, E. L., Ph.D. Chic.,  
F.R.S.C. Prof.  
MacKay, C. A., M.A. Dal., Ph.D. Princ. Prof.
- German*  
Anstensen, A., M.A. Col. Prof. Alty, T., D.Sc. Liv., Ph.D. Camb.,  
F.I.P. Research Prof.  
Steinhäuer, H. J., M.A. Tor. Asst. Prof. Currie, B. W., Ph.D. Asst. Prof.
- Hebrew* [Lectr.  
Munro, M. F., M.A., B.D. Qu.
- History*  
Morton, A. S., M.A. Edin. Prof. Fiddes, J., M.D. Aber. Prof.  
Simpson, G. W., M.A. Tor. Prof. Murray, Jean E., M.A. Instr.
- Household Science*  
Rutter, Ethel, M.A. Col. Prof. Dawson, R. M., D.Sc. Lond. Prof.  
Oxner, Bertha G., M.A. Chic. Prof.  
Wilnot, Helen, M.A. Chic. Asst. Prof.
- Law* [Dean & Prof.  
Cronkite, F. C., LL.B. Harv. Shaw, A. M., B.S.A. Tor. Prof.  
Corry, J. A., B.C.L. Ox. Prof. MacEwen, J. W. G., M.Sc. Ames. Asst. Prof.  
Shepherd, F. A., B.A., LL.B. Prof. Ewan, A. H., M.A., B.Sc. (Agr.)  
Moxon, A., B.C.L. Ox. Lectr. Edin. Asst. Prof.  
Estey, J. W., M.A., LL.B. Harv. Wood, S. G., B.S.A. Instr.
- Dairying*  
Sibbald, A. S., M.A. Tor. Lectr. Potts, A. E., B.Sc. Edin., M.S.A. Prof.  
Schmitt, C. G. Lectr. Corn. Prof.  
Whitmore, E. F. Lectr. Graham, V. E., M.Sc. Wis. Asst. Prof.
- Mathematics*  
Ling, G. H., B.A. Tor., Ph.D. Col., LL.D. Tor. Prof.  
Dines, L. L., Ph.D. Chic., F.R.S.C. Prof.
- Pyke, A. J., M.A. Tor. Prof.*  
*De Lury, D. B., B.A. Instr.*
- Music*  
Collingwood, A., F.R.C.O. Prof.
- Pharmacy*  
Campbell, Alex. Emeritus Prof.
- Agriculture*  
*Animal Husbandry*  
Shaw, A. M., B.S.A. Tor. Prof.  
MacEwen, J. W. G., M.Sc. Ames. Asst. Prof.  
Ewan, A. H., M.A., B.Sc. (Agr.)  
Edin. Asst. Prof.  
Wood, S. G., B.S.A. Instr.
- Engineering, Agric.*  
Greig, A. R., B.Sc. McG. Prof.  
Hardy, A. E., M.S. Iowa Prof.  
Frey, R. P., M.S. Iowa Instr.  
Verbeke, G. J. Instr.
- Farm Management* [Prof.  
Allen, W., B.S.A., Ph.D. Corn.  
Hope, E. C., M.A. Corn. Asst. Prof.
- Field Husbandry* [Prof.  
Champlin, M., M.Sc. S. Dak.



Sci., Optometry, Pharmacy, Land Surveyors, Drugless Practitioners, Engineering.

There are laboratories for the investigation of (1) animal diseases, (2) cereal chemistry, while special provision is made for research work in connexion with cement and concrete.

**LIBRARY**, 55,000 vols. **LABORATORIES**: Chem., Phys., Biol., Bact., Engin., Field Husbandry, Agric. Engin., Farm (830 a.), Agric. Exper. Fields (450 a.). **OBSERVATORY**.

**FACULTIES**. Arts and Science, Agric., Law, Engineering, Pharmacy, Accounting, Medical Sciences, Education, Household Science, Music.

**DEGREE COURSES**. 4 yrs., B.A., B.Sc., B.Acc., B.S.P. (Pharmacy), B.S.A. (Agric.), B.E. (Engin.), B.S.H. (Household Sci.), Mus.Bac., B.S. Ed.; LL.B. (3 yrs.); combined B.A. and B.S.A., 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province.

**HIGHER DEGREES**. Examn. open to Bachelors of 1 yr. standing—M.A., M.Sc., M.S.A., M.Ed.

**DIPLOMAS AND CERTIFICATES**. A 2-yr. course in Arts, designed specially for Junior Colls., leads to the "Associate in Arts." A 2-yr. course in Agric. leads to the "Associate in Agric." A 2-yr. certif. course is given in Pharmacy; a 1-yr. certif. course in Education for graduates in Arts or Science. A 3-yr. course is given in the PRE-MEDICAL SCHOOL, including Anatomy and Physiology.

**OTHER COURSES**. Summer School in co-operation with Provincial Department of Education. Short Courses on Agricultural and allied subjects. Short courses for professional groups.

**INTERCHANGE OF PROFESSORS** with Alberta and Manitoba takes place regularly.

**FEES**. Tuition for degree course in Agric., \$80; Engin., \$100; Acc., \$100; Educ., \$80; Pharm., \$100; Med., \$120; Arts and Sc., \$80; Graduate, \$80; Household Sci., \$80.

**SCHOLARSHIPS FOR GRADUATES**. One in Arts or Sc., \$100; one in each of Law, Pharmacy, Household Sci., Edn., and Engin., \$50; one in Agric., \$800.

**RESIDENCE**. Hostels for 120 men and 83 women. Board and room fees, \$7 a week.

**UNIV. EXTENSION**. In Farming and Home Economics short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 6 weeks' course in summer for teachers and others at the Univ. Bulletins, fairs, and shows.

**PUBLICATIONS**. *Calendar* (April); *Agric. Bulletins*; *Sheaf*.

## THE YEAR 1931-32

**BENEFACTIONS**. Gifts for Scholarships, Mrs. T. D. Brown, Sir Frederick Haultain.

**CHANGES IN REGULATIONS**. Faculty of Arts and Sciences divided into Junior and Senior Colleges.

**EXTRA-MURAL WORK**. Junior Colleges, 194; Correspondence Courses, 398.

**HONORARY DEGREES**. LL.D.—J. W. Sifton.

**STUDENTS**. Full-time: total, 1578, including 69 graduates. Part-time: total, 1285.

**DEGREES**. B.A., 81; B.S.A., 11; B.S.P., 3; B.H.Sc., 10; B.Sc., 50; B.E., 27; B.Acct., 6; LL.B., 11; M.A., 5; B.Ed., 4; M.Sc., 15; M.Ed., 1; total, 224.

# UNIVERSITY OF TORONTO

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THE UNIVERSITY OF TRINITY COLLEGE, TORONTO,  
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BURSAR—F. A. MOURÉ, Mus.Doc.

LIBRARIAN—W. S. WALLACE, M.A.

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<i>Accounting</i>		Carswell, W. E., B.Arch.	Lectr.
Ferguson, W. S.	Prof.	Dunnington-Grubb, H. B., B.S.A.	
Asst. Profs. :		Cornell	
Crocombe, F. R., M.A.	Camb.	(Landscape A.)	Spl. Lectr.
Ashley, C. A., B.Com.	Birm.	4 Instrs.	
Grant, R. R. (A. and Business Method)	Spl. Lectr.	<i>Astronomy</i>	
<i>Anatomy</i> , v. also Biol.		Chant, C. A., M.A., Ph.D.	Harv Prof.
Grant, J. C. B., M.C., M.B., F.R.C.S. Edin.	Prof.	Young, R. K., B.A., Ph.D.	Cal. Assoc. Prof.
Watt, J. C., M.A., M.D.	Prof.	3 Assts.	
Cates, H. A., M.B.	Assoc. Prof.	<i>Bacteriology</i> , v. Med.—Path.	
George, R. K., B.A., M.B., D.P.H.	Spl. Lectr	<i>Bio-Chemistry</i>	
3 Assts., 24 Demrs.		Wasteneys, H., Ph.D.	Col. Prof.
<i>Anthropology and Ethnology</i> , v. also Philos.		.....	
McIlwraith, T. F., M.A.	Camb.	Wynne, A. M., M.A.	Qu., Ph.D. Asst. Prof.
	Assoc. Prof.	5 Fellows, 3 Assts.	
<i>Architecture</i>		<i>Biology</i>	
Wright, C. H. C., B.A.Sc.	Prof.	Bensley, B. A., Ph.D.	Col.
Madill, H. H., B.A.Sc.	Assoc. Prof.	(Zool.)	Prof.
Arthur, E. R., M.A., B.Arch., M.A.		Piersol, W. H., B.A., M.B.	(Anat., Histol., and Embryol.) Prof.
Liv.	Assoc. Prof.		



- Walker, E. M., B.A., M.B.  
(Inv. Zool.) Prof.
- Huntsman, A. G., B.A., M.B.  
(Marine Biol.) Prof.
- Assoc. Profs. :  
Coventry, A. F., B.A. Ox. (Vert. Embry.).
- Dymond, J. R., M.A. (Syst. Zool.).
- MacArthur, J. W., A.B. Ober., M.A. Wabash, Ph.D. Chic. (Genetics).
- Baillie, W. H. T., M.A., M.D. (Mamm. Anat.).
- Craigie, E. H., B.A., Ph.D. (Comp. Anat. and Neur.) Asst. Prof.
- Harkness, W. J. K., M.A. (Limnobiol.) Asst. Prof.
- Ford, Norma H. C., Ph.D. Asst. Prof.
- 29 Demrs., etc.
- Botany*  
Thomson, R. B., B.A. Prof. (Plant Morph.).
- Jackson, H. S., A.B. Corn., Ph.D. Wisc. Prof. (Mycol.).
- Assoc. Profs. :  
Sifton, H. B., Ph.D. (Plant Morph.).
- Duff, G. H., Ph.D. (Plant Physiol.).
- Bailey, D. L., B.A. Qu., M.S., Ph.D. Minn. (Plant Pathol.).
- Wright, Jessie G., Ph.D. Asst. Prof.
- Taylor, T. M. C., B.A. Br. Col., M.S. Wisc., Ph.D. Lectr.
- Haddow, W. R., B.Sc.F., M.F. Spl. Lectr.
- 28 Assts.
- Ceramics*, v. Engineering (Met.)
- Chemistry*, v. also Eng., Food  
Miller, W. L., B.A., Ph.D. Munich (Physical C.) Prof.
- Allan, F. B., Ph.D. (Org. C.) Prof.
- Kenrick, F. B., M.A., Ph.D. Leip. Prof.
- Assoc. Profs. :  
Ferguson, J. B., B.A.
- Burt-Gerrans, J. T., Phm.B., Ph.D. (Electro-C.).
- Rogers, L. J., B.A.Sc., M.A.
- Funnell, W. S., M.A.
- Martin, W. H., Ph.D.
- Gordon, A. R., Ph.D. Asst. Prof.
- Lorrimer, F. R., M.A., Ph.D. Asst. Prof.
- Beamish, F. E., M.A. Lectr.
- Brown, Janet W., B.Sc., Ph.D. Lond. (Micro-Anal.) Lectr.
- 21 Assts.
- Classics Greek*  
Owen, E. T., M.A. Prof. (C.).
- Hamilton, D. E., M.A., D.Pæd. Assoc. Prof. (C.).
- Tait, M. D. C., B.A. Ox. Asst. Prof. (C.).
- Robertson, J. C., M.A. Prof. (V.).
- Adams, S. M., M.A. Assoc. Prof. (T.).
- Carr, Rev. H., B.A., LL.D. (Gk. and Hist. of Philos.) Prof. (M.).
- Classics : Greek and Latin*  
Norwood, G., M.A. Camb. Prof. (C.).
- Woodside, M. St. A., B.A. Tor. and Ox. Lectr. (C.) and (V.).
- Havelock, E. A., M.A. Assoc. Prof. (V.).
- Grube, G. M. A., M.A. Camb. Prof. (T.).
- English, B. R., M.A. Lectr. (V.).
- Morley, Susan G., M.A. Lectr. (T.).
- 1 Fellow (C.).
- Classics : Latin* [Prof. (C.).  
Smith, G. Oswald, M.A. Ox.
- Dale, E. A., M.A. Ox. Prof. (C.).
- MacKay, L. A., M.A. Asst. Prof. (C.).
- Fergusson, Margaret B., B.A. Camb., M.A. St. And. Lectr. (C.).
- Kay, F. L., B.A. Camb., M.A. N.Z. Lectr. (C.).
- Bennett, H., B.A., Ph.D. Prof. (V.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

- Kirkwood, W. A., M.A., Ph.D. Harv. Dean and Prof. (T).  
 Woodcock, J. N., M.A. Ox. Prof. (T).  
 McBrady, Rev. R. Prof. (M).  
 Muckle, Rev. J. T., M.A. Prof. (M).  
 Assoc. Profs. :  
 Sharpe, Rev. W. C., S.T.B., M.A. Cath.U.Am. (M).  
 Estelle, Sister M., M.A. (M).  
 St John, Sister M., M.A. (M).  
 Walsh, J. B., B.A., M.A. Cath U.Am. (M).  
 i Instr. (M).  
*Dentistry*, v. *infra*  
*Economics*, v. Polit. Sc.  
*Education*, v. also Household Sc., Music  
 Pakenham, W., B.A., LL.D. (School Admin.) Dean and Prof.  
 Sandiford, P., M.Sc. Manc, Ph.D. Col. Prof.  
 Cornish, G. A., B.A. Prof.  
 Ferguson, W. C., B.A. Prof.  
 Jones, G. M., B.A. Prof.  
 Coombs, F. E., M.A. Prof.  
 Macpherson, W. E., B.A., LL.B. Qu. Prof.  
 Carlisle, J. O., M.A. Prof.  
 Bennett, W. G., B.A., B.Com. Qu., A.M. Chic., D.Pæd. Assoc. Prof.  
 Diltz, B. C., M.A. Qu. Asst. Prof.  
 Long, J. A., B.A. McM. Asst. Prof.  
 Lectrs. :  
 Scarrow, A. N. (Manual Train.).  
 Halbus, F., B.A. McM. (Phys. Tr.).  
 Marsh, Annette (Art).  
 4 Instrs.  
*Embryology*, v. Biol.  
*Engineering*, v. *infra*  
*English*  
 Wallace, M. W., B.A., Ph.D. Chic., LL.D. McM. Principal and Prof. (C).  
 Knox, R. S., M.A. Aberd., B.A. Ox. Prof. (C).  
 Assoc. Profs. :  
 Davis, H. J., M.A. Ox. (C).  
 Clawson, W. H., B.A. N.Br., M.A., Ph.D. Harv. (C).  
 Macdonald, J. F., M.A. Qu. (C).  
 Asst. Profs. :  
 Kirkwood, Mossie M., Ph.D. (C).  
 Woodhouse, A. S. P., A.M. Harv., B.A. (C).  
 Brown, E. K., B.A., Dip. d'Etud. Sup. (C).  
 Endicott, N. J., B.A., B.Litt. Ox. Lectr. (C).  
 MacGillivray, J. R., M.A., Ph.D. Lectr. (C).  
 Edgar, O. P., B.A., Ph.D. J.H.U. Prof. (V).  
 Auger, C. E., B.A. Prof. (V).  
 Pratt, E. J., Ph.D. Assoc. Prof. (V).  
 Robins, J. D., M.A., Ph.D. Chic. Assoc. Prof. (V).  
 Smith, Florence A., M.A., Ph.D. Yale Lectr. (V).  
 Simpson, H. C., B.A. Ox., M.A. Tor. & Harv. Prof. (T).  
 Knight, G. W., M.A. Ox. Prof. (T).  
 Hodgins, L. C. A., M.A. Harv. Prof. (T).  
 Cartwright, Mabel, B.A., LL.D. (Dean of Women) Assoc. Prof. (T).  
 McCorkell, Rev. E. J., M.A. Cath. U.Am. Prof. (M).  
 Lectrs. :  
 Dorothea, Sister M., M.A., Ph.D. (M).  
 Athanasia, Sister M., M.A. De Paul (M).  
 Le Bel, Rev. E. C., M.A. Chic., B.A. (M).  
 Dominica, Sister M., B.A. (M).  
 i Fellow (C).

## Lectrs. for Med. Students :

Daniher, E. L., B.A.

Van Every, J. F., B.A.

*Food Chemistry*

Benson, Clara C., Ph.D. Prof.

Panton, Jean R., M.A. Lectr

3 Instrs, 2 Assts.

*Forestry*

Howe, C. D., M.S. Ver., Ph D.

Chic. Prof.

White, J. H., M.A., B.Sc.F., Ph.D.

Prof.

Millar, W. N., B.Sc. Penn., M.F.

Yale Assoc. Prof

Dwight, T. W., B.Sc.F., M.F.

Yale Assoc. Prof.

Hosie, R. C., B.Sc.F., M.A. Lectr.

*French*

Jeanneret, F. C. A., B.A. Prof (C).

Will, J. S., B.A., Ph.D. Col.

Prof. (C.).

Green, F. C., M.C., M.A. St. And.,

Ph.D. Cologne, D. de l'U.

Paris, O.A. Prof. (C.).

De Champ, St. E., B. ès L. Lyons,

O.I.P. (on leave)

Assoc. Prof. (C.).

Allen, L., M.A., Ph.D. Chic.

Assoc. Prof. (C.).

McKellar, H. S., B.A.

Assoc. Prof. (C.).

McAndrew, W. J., M.A.

Asst. Prof. (C.).

Andison, J. G., B.A. Man., A.M.,

Ph.D. Col. Asst. Prof. (C.).

Finch, R. D. C., B.A.

Asst. Prof. (C.).

## Lectrs. :

Cole, Freda A. C., M.A. (C.).

Lafamme, A. K., B.A., L. ès L.

Laval (C.).

Balthazard, Isabel G., M.A. (C.).

MacDonald, Marguerite D., B.A.

Laval, Dip. de l'U. Paris (C.).

Ford, H. E., M.A., Ph.D. Col.

Prof. (V.)

de Beaumont, V., A.M. Col.

Prof. (V.).

Lacey, A., A.M., Ph.D.

Assoc. Prof. (V.).

Rowell, Mary C., M.A.

Assoc. Prof. (V.).

Lasserre, H., B. ès L., B. ès Sc.,

L. en Dr. Assoc. Prof. (V.).

Cook, Alta L., B.A. Lectr. (V).

Hicks, R. K., A.M. Harv.

Prof. (T)

Fletcher, F. T. H., M.A. Birm.,

Dr. de l'U. Nancy

Assoc. Prof. (T.).

Walter, F. H., M.A. McG., D. de

l'U. Paris Assoc. Prof. (T).

Walter, Dorothea, B.A. Qu.

Lectr. (T.).

Bondy, Rev. L. J., M.A. Chic., Ph.D.

J.H.U. Prof. (M.).

Murray, Rev. W. H., B.A., L. en

Ph. Univ. Cath. de Paris

(on leave) Prof. (M.).

Margarita, Sister M., M.A.

Assoc. Prof. (M.).

Agnes, Sister M., M.A.

Assoc. Prof. (M.).

Bernard, Sister M., M.A.

Lectr. (M).

Berchmans, Sister M., A.M.

Lectr. (M.).

Sharpe, Rev. G. V., B.A.

Lectr. (M.).

2 Instrs. (C.), 1 Instr. (V.), 1

Fellow (V.).

*Genetics, v. Biology**Geology*

Parks, W. A., Ph D. Prof.

Moore, E. S., M.A., Ph.D. Chic.

(Economic G.) Prof.

MacLean, A., B.A. Assoc. Prof.

2 Demrs, 9 Assts.

*German*

Needler, G. H., B.A., Ph.D. Leip.

Prof. (C.).

..... Prof. (C.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Hedman, T., Ph.B. Chic  
 Assoc. Prof. (C).  
 Holt, G. E., M.A., Mus.B  
 Asst. Prof. (C).  
 Surerus, J. A., B.A.  
 Assoc. Prof. (V).  
 Arnold, R. K., Ph.D. Prag.  
 Lectr (V).  
 Shore, T. C., M.A. Lectr. (V).  
 Lewis, C., M.A. Ox. Prof (T).  
 Scott, Laila C., M.A.  
 Assoc. Prof. (T).  
 1 Instr.

*Histology, v. Biology*

*History*

Martin, Chester, M.A. Ox., LL.D.  
 Manc. Prof.  
 Flenley, R., M.A. Liv., B Litt. Ox.  
 Prof.  
 Underhill, F. H., B.A., M.A. Ox.  
 Prof.  
 Brown, G. W., B.A., Ph.D. Chic.  
 Assoc. Prof.  
 Glazebrook, G. P. de T., B.A.,  
 M.A. Ox. Asst Prof.

*Lectrs. :*

Creighton, D. G., B.A., M.A. Ox  
 McLinnis, E., B.A., M.A. Ox.  
 McDougall, D. J., B.A. Tor and  
 Ox.  
 Saunders, R. M., Ph.D.

*History, Ancient*

Cochrane, C. N., M.A. Ox.  
 Prof. (C).  
 Needler, Miss M. C., M.A., Ph.D.  
 Chic. Lectr. (C).  
 Sissons, C. B., B.A., LL.D. Ottawa  
 Prof. (V).

*Household Science, v. also Food*

Laird, Annie L., M.Sc. Drex. Prof.  
 Valentine, Charlotte F., M.A.  
 Asst. Prof.  
 Willard, Alice C., A.M. Knox, S.M.,  
 Ph.D. Chic. Asst. Prof.

*Lectrs. :*

Park, Edna W., M.A.

Bennett, Kathleen E., M.A.  
 Rose, Grace R. F., M.A.  
 Courtice, Iva L., B.A., M.A. Col.  
 Ockley, Laura L., B.A.  
 Assoc. Prof. (Coll. of Educ.).  
 Robertson, Alicia E.  
 Lectr. (Coll. of Educ.).  
 4 Assts.

*Industrial Art, History of*

Currelly, C. T., M.A., LL.D. Qu.  
 Prof.  
 ..... Asst. Prof

*Italian and Spanish*

Buchanan, M. A., B.A., Ph.D.  
 Chic. Prof.  
 Shaw, J. E., A.B., Ph.D. J Hop.  
 Prof.  
 Goggio, E., A.B., M.A., Ph.D.  
 Harv. Assoc. Prof.  
 Patterson, G. C., M.C., B.A.  
 Assoc. Prof.  
 Cano, J., A.B. Tol., A.M., Ph.D.  
 Col. Assoc. Prof.  
 2 Instrs.

*Law*

Kennedy, W. P. McC., M.A. Ox.,  
 Litt.D. Dub.  
 (L. and Polit. Instns) Prof.  
 Mackenzie, N. A. M., B.A., LL.B.  
 Dal., LL.M. Harv. Assoc. Prof.  
 Auld, F. C., M.A., B.C.L. Ox.  
 (Roman L. and Jur.)  
 Assoc. Prof.  
 Finkelman, J., M.A. Lectr.  
 Clute, A. R., K.C., B.A., LL.B.  
 (Ltd. Cos. and Com. Law)  
 Spl. Lectr.  
 Laidlaw, R. E., B.A.Sc.  
 (Engin. L.) Spl. Lectr.

*Library Science*

[Dir.  
 Barnstead, Winifred G., B.A. Dal.  
 Bassam, Bertha, B.A. Qu. Lectr.  
 Thompson, Dorothy A., B.A.  
 Lectr.  
 7 Instrs.

*Mathematics*

De Lury, A. T., M.A., LL.D.  
W. Ont. Prof.

..... Research Prof  
Mackenzie, M. A., M.A. Camb.

(Actuarial Sci.) Prof.

Beatty, S., Ph.D. Prof.

Chapelon, J., D. ès Sc. Paris Prof.

Assoc. Profs. :

Pounder, I. R., M.A., Ph.D. Chic.

Webber, W. J., B.A. Camb.

Sheppard, N. E., M.A.

Robinson, D. A. F., M.A., Ph.D.  
Chic. Asst. Prof.

Burk, J. D., B.A. Lectr.

Robinson, G. de B., B.A., Ph.D.  
Camb Lectr.

Waddell, Mary E. G., M.A. Lectr.

Krieger, Cypra C., M.A., Ph.D.  
Lectr.

Lougheed, W. J., M.A., B.Pæd.

Assoc. Prof. (Coll. of Educ.)

4 Fellows.

*Mathematics, Applied*

Synge, J. L., M.A., Sc.D. Dub.  
Prof.

Stevenson, A. F. C., M.A. Camb.  
Asst. Prof.

1 Fellow.

*Medicine and Surgery, v. infra**Metallurgy, v. Engin.**Military Studies*

[Dir.

Cartwright, G. S., C.B., C.M.G.

*Mineralogy*

Walker, T. L., M.A. Qu., Ph.D.  
Leip. Prof.

Parsons, A. L., A.B. N.Y. Prof.

Thomson, J. E., B.A.Sc., Ph.D.  
Harv. Assoc. Prof.

1 Demr., 1 Asst.

*Mining, v. Engin.**Music*

MacMillan, E., B.A., Mus.Doc. Ox.  
(Church M.) Dean and Lectr.

Fricker, H. A., M.A. Leeds,  
Mus.Doc. (Choral and Orch.  
M.) Lectr.

Smith, L., Mus.B. Manc. (Theory  
of M.) Lectr.

Bramfitt, G. N., B.A., B.Pæd.  
Lectr. (Coll. of Educ.).

*Oriental Lang.*

Taylor, W. R., Ph.D. Prof. (C.).

Meek, T. J., B.A., B.D. McCorm.,  
Ph.D. Chic. Prof. (C.).

Winnett, F. V., M.A., Ph.D.  
Lectr. (C)

McCullough, W. S., M.A.  
Lectr. (C.)

Staples, W. E., M.A., Ph.D.  
Lectr. (V.).

Mercer, S. A. B., B.A. Harv., C.E.,  
M.A. Wisc., Ph.D. Munich,  
D.D. Nashotah Prof. (T.).

1 Fellow (C.), 1 Fellow (T.).

*Philosophy, v. also Classics*

Brett, G. S., M.A. Ox. Prof.  
Robinson, T. R., Ph.D.

Assoc. Prof.

Anderson, F. H., Ph.D.

Assoc. Prof.

MacCallum, H. R., B.A. Qu. and  
Ox. Assoc. Prof.

Macdonald, E. W., B.A. Qu.  
Asst. Prof.

..... Prof. (C.).

Lane, W. B., M.A., Ph.D. Wisc.  
(Ethics) Prof. (V.).

Line, Rev. J., M.A., B.D., S.T.D.  
(Ethics) Assoc. Prof. (V.).

Kingston, G. F., M.A., B.D.  
King's, Ph.D. (Ethics) (Dean  
of Residence) Prof. (T.).

Carr, Rev. H., B.A., LL.D.  
Prof. (M.).

Gilson, E., D. ès L. Paris, LL.D.  
St. And., Ph.D. Mont., D.Litt.

Ox. (Mediæval P.) Prof. (M.).

Bellisle, Rev. H. S., B.A., M.A.  
Cath. U. Am. (Logic)  
Superior and Prof. (M.).

(C.), (V.), (T.), (M) = Univ., Victoria, Trinity, St. Michael's College.

Roach, Rev. W. J., B.A.  
(Ethics) Prof. (M.).  
Sullivan, Rev. B., M.A. (Soc. Eth.)  
Assoc. Prof. (M.).  
Coughlin, Rev. H., B.A. W. Ont.,  
M.A., S.T.D. Rome (Theodicy)  
Assoc. Prof. (M.).  
Boyle, Rev. T. O., B.A. St. F. X.,  
D.D. Laval Lectr. (M.).  
Bart, Rev. P. J., M.A. Lectr. (M.).  
O'Sullivan, P. M., M.A., M.B.,  
Ph.D. Lectr. (M.).  
1 Asst. (C.), 1 Fellow (T.)

*Physics*

Burton, E. F., B.A. Camb., Ph.D.  
(Hd. of Dept., Dir. of  
Lab) Prof.  
Satterly, J., M.A. Camb., D.Sc.  
Lond. Prof.  
Gilchrist, L., M.A., Ph.D. Chic.  
Assoc. Prof.  
McTaggart, H. A., B.A. Camb.,  
Ph.D. Assoc. Prof.  
Ainslie, D. S., M.A., Ph.D.  
Asst. Prof.  
Ireton, H. J. C., M.A.  
Lectr., Demr., and Res. Assoc.  
McLay, A. B., B.A. McM., M.A.,  
Ph.D. Res. Assoc.  
Barnes, C., M.Sc. Leeds  
Lectr and Res. Asst.  
Crawford, M. F., B.A. W. Ont., M.A.  
Tech. Asst., Demr. & Lectr.  
26 Demrs., etc.

*Physiology*

Best, C. H., M.A., M.B., D.Sc.  
Lond., F.R.C.P. Can Prof.  
Taylor, N. B., M.B., F.R.C.S.  
Edin. Prof.  
Irving, L., A.M. Harv., Ph.D.  
Stanf. Assoc. Prof.  
Partridge, Ruth C., M.A. Lectr.  
2 Demrs., 4 Fellows.

*Political Science*, v. also Law

Urwick, E. J., M.A. Ox.  
(Acting Dir. Soc. Service) Prof.  
..... Prof.

Jackman, W., M.A. (Transp.)  
Prof.  
Jackson, G. E., B.A. Camb Prof.  
Innis, H. A., M.A. McM., Ph.D.  
Chic. Assoc. Prof.  
Kemp, H. R., M.A. Assoc. Prof.  
Brady, A., B.A., B.A. Ox., M.A.,  
Ph.D. Assoc. Prof.  
Bladen, V. W., M.A. Ox.  
Asst. Prof.  
Drummond, W. M., B.A. Qu.,  
M.A. Asst Prof.  
Morgan, L. T., B.A. Br. Col., M.A.,  
Ph.D. Cal. Asst. Prof.

*Lectrs. :*

Perold, J. G., M.A., B.D.  
Parkinson, J. F., B.Com. Lond.  
Biss, Irene M., B.A. Camb., M.A.  
Bryn Mawr.  
MacGregor, D. C., B.A.  
Plumptre, A. F. W., B.A. Tor. and  
Camb.  
Van der Sprekel, O. P. N. B.,  
B.Sc. Lond.  
Grauer, A. E., B.A. Br. Col. and  
Ox., Ph.D. Cal.  
Glazebrook, A. J. (Banking and  
Finance) Spl. Lectr.  
2 Assts.

*Psychology*

Bott, E. A., B.A. Prof.  
Blatz, W. E., M.A., M.B., Ph.D.  
Chic. Prof.  
Chant, S. N. F., M.A. Assoc. Prof.  
Line, W., B.Sc. Mt. A., M.A., B.Ed.  
Alb., Ph.D. Lond. Asst. Prof.  
Ketchum, J. D., M.A. (on leave)  
Lectr.  
Rogers, K. H., M.A. Lectr.  
Bernhardt, K. S., M.A. Lectr.  
Myers, C. R., M.A. Lectr.  
Wilson, D. J., M.A. Lectr.  
Phelan, G., M.A. St. F. X.,  
Ph.D. Louvain Prof. (M.).  
1 Instr., 15 Class Assts., etc.

*Public Health Nursing*

Russell, Edith K., B.A. King's,  
B.Pæd. Director.

Emory, Florence

Asst. Director and Lectr.  
6 Spl. Lectrs.

*Public Speaking* [Spl. Lectr.]

Kirkpatrick, F. H., Ph.B. Hiram

*Religious Knowledge*, v. *infra*,  
Federated Colls.

*Social Science*, v. also Pol. Sci

..... Dir.  
McGregor, Agnes Asst. Dir.

Cassidy, H. M., B.A. Brit. Col.,  
Ph.D. Brook. Asst. Prof.

..... (Sociology) Prof. (V).  
Hamilton, Berta, M.A. Tor. and

St. And. Lectr  
8 Lectrs. (part-time)

*Spanish*, v. *Italian*

*Surveying*

Treadgold, W. M., B.A. Prof.

Crerar, S. R., B.A.Sc. Assoc. Prof.

Banting, E. W., B.A.Sc. Assoc. Prof.

Melson, J. W., B.A.Sc. Asst. Prof.

*Zoology*, v. *Biology*

*Engineering**Chemical E. and Appl. Chemistry*

Bain, J. W., B.A.Sc. Prof.

Boswell, M. C., B.A.Sc., M.A. Tor.

and Harv., Ph.D.

(Org. Chem.) Prof.

Ardagh, E. G. R., B.A.Sc. Prof.

Smith, E. A., M.A. McM.

Asst. Prof.

McLaughlin, R. R., M.A.Sc., M.A.,

Ph.D. Asst. Prof.

Crossley, T. L. Spl. Lectr.

De Laporte, A. V., B.A.Sc.

Spl. Lectr.

1 Instr., 5 Demrs.

*Civil E. and Applied Mechanics*

Young, C. R., B.A.Sc., C.E.

(Civil Eng.) Prof.

Loudon, T. R., B.A.Sc.

(App. Mech.) Prof.

Smither, W. J., B.A.Sc.

(Struct. Eng.) Assoc. Prof.

Laing, A. T., B.A.Sc.

(Highway Eng.) Assoc. Prof.

Lazier, M. J. C., B.A.Sc. Lectr.

Morrison, C. F., B.A. Sask., M.Sc.

McG. Lectr.

Sagar, W. L., B.A.Sc. Lectr.

Berry, A. E., M.A.Sc., C.E., Ph.D.

Spl. Lectr.

1 Instr., 2 Demrs.

*Electrical E.*

Rosebrugh, T. R., M.A. Prof.

Price, H. W., B.A.Sc. Prof

Zimmer, A. R., B.A.Sc.

Assoc. Prof.

Smith, V. G., B.A.Sc. Asst. Prof.

Bayly, B. de F., B.A.Sc. Lectr.

1 Instr., 8 Demrs.

*Engineering Drawing*

Cockburn, J. R., M.C., V.D.,

B.A.Sc.

(Descr. Geometry) Prof

Wright, W. J. T., M.B.E., B.A.Sc.

Assoc. Prof.

Dunbar, W. B., B.A.Sc. Lectr.

Jermyn, P. V., B.A.Sc. Lectr.

Spence, J. J. Lectr.

2 Instrs., 6 Demrs.

*Eng. Physics and Photography*

Anderson, G. R., M.A. Tor. and

Harv. Prof.

Jackson, K. B., B.A.Sc.

Asst. Prof.

5 Demrs.

*Mechanical E.*

Angus, R. W., B.A.Sc. Prof.

Allcut, E. A., M.Sc. Birm., M.E.

Prof.

Taylor, R., B.A.Sc. Assoc. Prof.

McIntosh, W. G., B.A.Sc.

Asst. Prof.

Heard, C. G., B.A.Sc. Asst. Prof.

2 Instrs., 5 Demrs.

*Metallurgical E.*

Guess, G. A., M.A. Qu. Prof.  
 Newcombe, J. A., B.Sc. Lond. Assoc. Prof.

## Asst. Profs. :

Toomer, J. E., B.S. N. Carolina.  
 Montgomery, R. J., B.Sc. Ohio  
 (Ceramics).

*Mining E.*

Haultain, H. E. T., C.E. Prof.  
 King, J. T., B.A.Sc. Assoc. Prof.  
 Dyer, F. C., B.A.Sc. Assoc. Prof.  
 2 Instrs.

*Medicine*

(for subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Bacteriology*, v. Pathology*Gynaecology*, v. Obstetrics*History of Medicine* [Prof.]

Elliott, J. H., M.B., F.R.C.P. Can.

*Hygiene*, v. also Food

FitzGerald, J. G., M.D., LL.D. Qu.,  
 F.R.C.P. Can. Dean & Prof.  
 Defries, R. D., M.D., D.P.H. Prof.  
 Fraser, D. T., M.C., B.A., M.B.,  
 D.P.H. Assoc. Prof.  
 Moloney, P. J., Ph.D. Assoc. Prof.  
 McKinnon, N. E., M.B.

(H. and Epidem.) Asst. Prof.

Cunningham, J. G., B.A., M.B.,  
 D.P.H. Lectr.

Porter, G. D., M.B. Lectr.

Ross, Mary A., B.A. Dal., M.A.

(Vital Stat.) Lectr.

McCullough, J. W. S., M.D., C.M.,  
 D.P.H. (Pub. Health Admin.)  
 Lectr.

3 Demrs., 2 Class Assts.

*Life Insurance*

Hutchison, H. S., M.B., F.R.C.P.  
 Can. Spl. Lectr.

*Medical Ethics*

Young, G. S., B.A., M.B., F.R.C.P.  
 Can. Spl. Lectr.

*Medical Jurisprudence*

Crawford, M. M., M.B. Assoc.

*Medical Research*

Banting, F. G., M.D., LL.D. Qu.  
 and W. Ont., D.Sc., F.R.C.S.  
 Can. Prof.

King, E. J., M.A. McM., Ph.D.  
 Asst. Prof.

4 Assocs., 5 Assts., 6 Fellows.

*Medicine and Clinical Medicine*

Graham, D. A. L., M.B., F.R.C.P.  
 Can. Prof.

## Asst. Profs. :

Howland, G. W., B.A., M.B.,  
 F.R.C.P. Can., M.R.C.P.

Oille, J. A., M.D., F.R.C.P. Can.

Clarkson, F. A., M.B., F.R.C.P.  
 Can.

Hutchison, H. S., M.B., F.R.C.P.  
 Can.

Loudon, J. D., B.A., M.B.,  
 F.R.C.P. Can.

Trow, E. J., M.B., F.R.C.P. Can.  
 (Dermat.).

## Assocs. :

Armour, R. G., B.A., M.B.,  
 F.R.C.P. Can.

Campbell, W. R., M.A., M.D.,  
 F.R.C.P. Can.

Ellott, J. H., M.B., F.R.C.P. Can.

McPhedran, W. F., B.A., M.B.

Parsons, H. C., M.A., M.D., C.M.,  
 M.R.C.P.

26 Demrs., 2 Fellows.

*Obstetrics and Gynaecology*

Hendry, W. B., D.S.O., B.A., M.B.  
 Prof.

## Assoc. Profs. :

McIlwraith, K. C., M.B. (Obstet.).  
 Marlow, F. W., M.D., C.M.,  
 F.R.C.S.Eng. (Gynæc.).

## Asst. Profs. :

Frawley, N. D., M.B., F.R.C.S.  
 Can.

Wesley, R. W., M.B., F.R.C.S. Can.

Scott, W. A., B.A., M.B., F.R.C.S.  
 Can.

Kinnear, J. A., M.D., C.M. Assoc.  
 10 Demrs., 3 Fellows.



*Ophthalmology*  
Lowry, W. H., M.D., C.M.,  
F.R.C.S. Can. Prof.  
4 Demrs., 2 Assts.

*Oto-Laryngology*  
Goldsmith, P. G., C.B.E., M.D.,  
C.M., F.R.C.S. Can. Prof.  
Royce, G., B.A., M.B., F.R.C.S.  
Can. Assoc. Prof.  
Biggs, G. M., M.B. Assoc.  
Boyd, E., B.A., M.B. Assoc.  
8 Demrs

*Pathology and Bacteriology*  
Klotz, O., M.B., M.D., C.M. McG.,  
F.R.C.P. Can. Prof.  
Holman, W. L., B.A., M.D., C.M.  
McG. (Bact.) Prof.  
Linell, E. A., M.B., Ch B., M.D.  
Manc. (Neuropath.) Prof.  
Robinson, W. L., B.A. McM.,  
M.B., F.R.C.P. Can.  
(Path.) Assoc. Prof.  
Shanks, G., B.A., M.D., C.M.  
McG. Asst. Prof.  
Detweiler, H. K., M.D. F.R.C.P.  
Can. (Serology). Assoc. Dir.  
Lectrs.:  
Magner, W., M.D., D.P.H. (Path.).  
Bates, J. E., B.A. McM., M.B.  
(Path.).  
Erb, I. H., M.B. (Path.) Lectr.  
Belt, T. H., M.B., B.Sc. (Med.)  
(Path.) Lectr.  
Clifford, E. J., M.B. (Bact.).  
Price, Ruth M., M.B.  
(Bact.) Lectr.  
Greedy, P. H., M.D., B.Sc. (Med.)  
(Bact. and Serol.).  
3 Demrs., 1 Asst., 5 Fellows.

*Pathological Chemistry*  
Harding, V. J., D.Sc. Manc. Prof.  
Nicholson, T. F., M.B., B.Sc.  
(Med.) Asst. Prof.  
1 Demr., 2 Assts., 4 Fellows.

*Pediatrics* [Assoc. Prof.]  
Brown, A., M.B., F.R.C.P. Can.  
Canfield, A. W., M.D., C.M. Assoc.

Tisdall, F. F., M.D., F.R.C.P. Can.  
Assoc.  
8 Demrs.

*Pharmacy and Pharmacology*  
Henderson, V. E., M.A., M.B.  
Prof.  
Lucas, G. H. W., Ph.D.  
(Pharmacol.) Assoc. Prof.  
2 Fellows, 3 Assts.

*Psychiatry*  
Farrar, C. B., A.B. Harv., M.D.  
J Hop, F.R.C.P. Can. Prof.  
Lewis, E. P., B.A. McM., M.B.  
Assoc.  
3 Demrs., 3 Fellows.

*Radiology*  
Richards, G. E., M.B., F.R.C.P.  
Can. Assoc.  
4 Demrs.

*Surgery and Clinical Surgery*,  
v. also Med. Jurisp.  
Gallie, W. E., M.D., F.R.C.S. Eng.  
et Can. Prof.  
Starr, F. N. G., C.B.E., M.B.,  
M.D., C.M., F.R.C.S. Can.  
(Clin. S.) Prof.  
Asst. Profs.:

Graham, R. R., M.B., F.R.C.S.  
Can

Beatty, H. A., M.B., F.R.C.S. Can.  
Jones, W. W., B.A., M.B.,  
F.R.C.S. Eng.

Robertson, D. E., M.D.  
Ryerson, E. S., M.D., C.M.  
Shenstone, N. S., B.A., M.D. Col.  
Wilson, G. E., M.B., F.R.C.S.  
Eng.

Clutterbuck, H. E., M.D., C.M.,  
F.R.C.S. Edin. Assoc.

Gaby, R. E., B.A., M.D. Corn.,  
F.R.C.S. Can. Assoc.

Harris, R. I., M.C., M.B., F.R.C.S.  
Can. Assoc.

Le Mesurier, A. B., M.B. Assoc.  
Pearse, R., F.R.C.S. Eng. et Can.  
Assoc.

Scott, W. A., C.M.G., B.A., M.D.,  
F.R.C.S. Eng. Assoc.

Wookey, H. W., M.B., F R C.S.

Assoc.

27 Demrs., 10 Fellows.

*Therapeutics*

Rudolf, R. D., C.B.E., M.D. Edin.,

F.R.C.P. Lond. Prof.

Johnston, S., M.A., M.D., C.M.

(Anæsth.) Lectr.

8 Demrs., 1 Fellow.

**Dentistry**

*Clinical Dentistry*

Mason, A. D. A., D.D.S. Prof.

Switzer, W. G., D.D.S. Assoc. Prof.

Clarkson, F. A., M.B., F.R.C.P.

Can. Assoc. Prof.

Hoskin, H. A., D.D.S. Assoc. Prof.

13 Assocs.

*Crown and Bridge Prosthesis*

Ante, I. H., D.D.S. Prof.

*Dental Anatomy*

Crouch, S. S., D.D.S. Prof.

*Dental Bibliography*

Kennedy, C. A., D.D.S. Librarian.

*Dental Pathology and Bacteriology*

Cameron, G. C., M.D., F.R.C.P.

Can. Prof.

1 Assoc.

*Dental Praxis*

Conboy, F. J., D.D.S. Prof.

*Dental Surgery and Anæsthesia*

Paul, E. W., D.D.S. Prof.

Ryerson, E. S., M.D., C.M.

Asst. Prof.

1 Assoc.

*Dental Technol. and Metallurgy*

Cowling, T., M.A. McM., D.D.S.,

B.Pæd. Prof.

Rous, C. C., B.A.Sc. Lectr.

1 Instr.

*Operative Dentistry*

[Prof.]

Webster, A. E., D.D.S., M.D. Chic.

1 Assoc.

*Oral Surgery*

[Assoc. Prof.]

Risdon, F. E., M.B., D.D.S.

*Orthodontia*

Corrigan, C. A., D.D.S.

Assoc. Prof.

Kennedy, C. A., D.D.S.

Assoc. Prof.

*Peridontology*

[Research Prof.]

Box, H. K., D.D.S., Ph.D.

1 Assoc.

*Preventive Dentistry*

Seccombe, W., D.D.S.

Dean and Prof.

1 Assoc., 1 Asst.

*Prosthetic Dentistry*

[Prof.]

Lott, F. M., D.D.S., B.Sc. (Dent.)

1 Assoc.

*Radiography and Photography*

Richardson, S. M., D.D.S. Assoc.

**COLLEGES OF THE UNIVERSITY**

UNIVERSITY COLLEGE. Principal—M. W. Wallace, B.A., Ph.D., LL.D.; Registrar—W. J. McAndrew, M.A.

VICTORIA COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

ST. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

**FEDERATED UNIVERSITIES**

UNIVERSITY OF TRINITY COLLEGE, *see* p. 469.

VICTORIA UNIVERSITY, *see* p. 470.

**FEDERATED COLLEGES**

ST. MICHAEL'S COLLEGE. Superior—Rev. H. S. Bellisle, M.A.; Registrar—Rev. B. Sullivan, M.A. Other Teachers: the Profs., etc., marked (M.) in

above list, also Rev. H. Dillon, D.D., Ph.D., L.S.S., Rev. B. Forner, B.A., and Rev. M. J. Oliver, B.A., Ph.M.

KNOX COLLEGE, WYCLIFFE COLLEGE, and EMMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—Rev. J. D. Cunningham, M.A., D.D. (2) Wycliffe—Rev. W. R. R. Armitage, M.A.; Rev. B. W. Horan, M.A., B.D.; Rev. T. W. Isherwood, M.A.; Rev. C. V. Pilcher, M.A., D.D.; Rev. W. E. Taylor, M.A., Ph.D. (3) Emmanuel—Rev. R. Davidson, M.A., Ph.D., D.D. (Principal); Rev. J. Dow, M.A., D.D.; Rev. A. J. Johnston, B.A., D.D.; Rev. J. Line, M.A., B.D., S.T.D.; Rev. J. F. McLaughlin, B.A., D.D.; Rev. J. H. Michael, M.A., D.D.

## AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. (For B.S.A. degree.) President—G. I. Christie, B.S.A., D.Sc. 16 Profs., 11 Assoc. Profs., 8 Asst. Profs., and 20 Lectrs. 47 Demrs. and Instrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. Dean—C. F. Heebner, Ph.G., Phm.B. Registrar-Treasurer—J. F. Roberts. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH. (For B.V.Sc. degree.) Principal—C. D. McGilvray, M.D.V., D.V.Sc. Faculty—13 Teachers.

ALBERT COLLEGE, Belleville; ALMA COLLEGE, St. Thomas; ONTARIO LADIES' COLLEGE, Whitby; St. HILDA's COLLEGE, Toronto (the Women's RESIDENCE for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—J. E. H. MacDonald, A.R.C.A.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO.

## GENERAL INFORMATION

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. For early history, see *Yearbook*, 1929.

LIBRARY, 275,827 vols. and 100,571 pamphlets. Annual Grant for books, \$56,700; 2050 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS: The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology; departmental museums; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES: in all depts. of Applied Science and Engineering as well as Anat., Bio-Chem., Biol., Bot., Chem., Geol., Household Sc., Hygiene, Mineralogy, Path., Physics, Psychol., Physiol.; described in *Bulletin* for Graduate Students. Banting Inst., v. App. XXIV. BOTANICAL GARDEN. OBSERVATORY. HOSPITALS available for Clinics: General, 1045 beds; Children's, 400; St. Michael's, 610; Western, 300; Psychiatric, 60; Isolation, 425.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry. DEPARTMENTS. Social Science, Public Health Nursing, University Extension.

SECRETARIES OF FACULTIES: (Arts) A. B. Fennell, M.C., M.A.; (Med.) E. S.

Ryerson, M.D., C.M. ; (Applied Sci. and Engin.) W. S. Wilson, B.A.Sc. ; (Household Sci.) Clara C. Benson, Ph.D. ; (Educ.) Lyda Swinarton ; (Forestry) R. C. Hosie, B.Sc.F., M.A. ; (Music) Annie W. Patterson, B.A. ; (School of Graduate Studies) Nora Mackenzie ; (Dentistry) C. C. Rous, B.A.Sc.

**UNIVERSITY MATRICULATION BOARD.** A Board created by the Univs. of Toronto, Queen's, McMaster, W. Ont., and Ottawa conducts and controls their annual Matricn. examns. The Dept. of Educn. of Ontario provides the machinery for holding these examns., and the Registrar of the Dept. is Secy. of the Board. A report signed by all members of the staff of the school concerned as to the standing of their candidates is considered in determining the results of the examn.

The subjects of Pass Matricn. are (1) Latin, (2) Engl., (3) Hist., (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chem., or (10) Agric., (11) Zool. and Bot. (Hon. Matric. only). For Matricn. in Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) for admission to the Pass Course with honour standing in at least 5 specified subjects. To obtain this honour standing a student must spend at least one yr. at school after completing Pass Matricn. In certain cases foreign students may substitute their native lang. for Greek or French or German. Music is accepted as an option for Ancient Hist. (the subject of one of the two Hist. papers, the other being Canadian Hist.).

For Matricn. in the Univ. of Toronto in Med. the requirements are (1) to (4), (9), and any one of (5) to (8), with honour standing in (2), (4), and one of (6) or (7) and (9) or (11) ; in Applied Sc.—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), (9), and one of (1), (5) to (8) ; in Household Science—(2), (3), (4), three of (5) to (9), with honour standing in at least 5 specified subjects ; in Forestry—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2) (4), one of (6) or (7), and (9) or (11) ; in Music—(1), (2), (3), (4), and two of (5) to (9) ; in Dentistry—(1), (2), (3), (4), (9), and one of (5) to (8), with honour standing in (2), (4), and one of (6) or (7), and (9) or (11).

Minimum age for admission to the Faculty of Arts, 16 ; Med., 17 ; Appli. Sc., 17 ; House. Sc., 16 ; Educn., 19 ; Forestry, 17 ; Dentistry, 16.

**DEGREE COURSES.** 3 yrs.—Pass B.A. ; 4 yrs.—Honour B.A., B.Com., B.A.Sc., B.Sc. (Med.), B.Sc. (Dent.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph) ; 3 yrs.—Mus.B. ; 2 yrs.—Phm.B. ; 5 yrs.—B.Arch., D.D.S. ; 6 yrs.—M.D. Combined courses : B.A. and M.D.—7 yrs.

*Students from the British Isles* will be admitted to Medicine and Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain and the Institution of Civil Engineers.

The requirements for admission to the 5-yr. course at Osgoode Hall Law School are the completion of (1) the Honour Matriculation requirement for admission to the Faculty of Arts, or (2) the first year of a 4-yr. Arts course, but graduates in Arts are admitted to a 3-yr course at the Law School.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Sci. of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergrad. course ; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. of approved

Australian Univs. may be admitted in the Fac. of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session at the Fac. of Dentistry.

**Higher Degrees.** M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

M.S. obtainable after 2 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. graduate of this Univ. or one who holds an equivalent degree from some other Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The M.Arch. may be obtained by one who holds the degree of B.Arch. or B.A.Sc., or an equivalent degree, under the same conditions as the M.A.Sc. degree.

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E., Met.E., are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns. The F.E. may similarly be obtained by a B.Sc.F., and the M.Sc.F. in 2 yrs.

The B.Pæd. and D.Pæd. are open to graduates in Arts or Science of any British Univ. who hold a 1st class or High School Asst.'s certif. of Ontario or its equivalent, and pass, after 2 yrs.' (D.Pæd.—3 yrs.) successful experience in teaching, prescribed examns. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn.

The M.S.A. is open to grads. who have obtained the B.S.A. degree or its equivalent. It involves at least 1 yr.'s work.

The M.Sc. (Dent.) is open to grads. of the Fac. of Dentistry of Univ. of Toronto or those with equivalent standing. It involves at least 2 years' work.

The M.V.Sc. or the D.V.Sc. is open to grads. who have obtained the B.V.Sc. degree or its equivalent.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses*. All communications on the subject must be addressed to the *School of Graduate Studies*.

**TRAINING OF TEACHERS.** Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the results of Univ. examns., entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

**FEES** Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Fac. of Arts without payment of fees except for lab. supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, are \$100 p.a. Medical students pay for tuition, lab. supply, hospital and annual examn., \$200 (\$150 for 1st year only) p.a. Applied Sci. and Engin., \$200 p.a.; Household Sci., \$125 p.a.; Certificate courses in the Coll. of Education cost \$25 p.a.; Forestry, \$125 p.a.; D.P.H., \$200 p.a.; Dentistry, \$200 p.a.

**SCHOLARSHIPS.** Numerous fellowships, scholarships, bursaries, and prizes are available. In the Fac. of Arts there are 20 scholarships for students in their 1st yr. (2 open to women only), 30 in 2nd yr. (1 open to women only), between 30 and 40 in 3rd yr., 6 in 4th yr., 1 open to 1st, 2nd, or 3rd yr., and a number open to students of any yr. In the Fac. of Med. there are 25 fellowships, scholarships, and bursaries, of which 10 are open only to graduates. In the Fac. of Applied Sci. and Engin. 22, 2 being for graduates only. Several in the Facs. of Forestry and Dentistry, and in the Fac. of Household Sci. the *Marion Dickenson Scholarship* for graduates, value \$500, tenable at Teachers' Coll., Columbia Univ., to be offered in June 1934 and every 2nd yr. thereafter.

For post-graduate scholarships and fellowships, etc., open to non-members of the Univ., see App. XXIII.

**RESIDENCE.** University Houses accommodate 150 men, rent, \$4 per week; Univ. Coll. Houses, residence for 31 men, rent \$4 per week; residence and board for women (190), about \$9.50 per week; Victoria Coll. Halls for 168 men, about \$9 per week, and 200 women, \$280 to \$400 p.a.; Trinity Coll. provides for 120 men and 70 women; St. Michael's (R.C.) has also residences for men and women.

**HART HOUSE,** the gift of the Massey Foundation in memory of Mr. Hart Massey, affords all the facilities of a first-rate club for men undergrads. It includes many halls and rooms, providing for all the activities in the undergrads' life other than work in the lecture room. Annual fee, \$10. Warden—J. B. Bickersteth, M.A.

**MEDICAL ADVISOR FOR WOMEN STUDENTS**—Edith Gordon, B.A., M.B., D.P.H.

**UNIVERSITY EXTENSION AND PUBLICITY.** (1) Classes are held in the evenings and on Saturdays, for teachers proceeding to the B.A. degree. (2) Summer Session in Arts and Pedagogy for teachers. (3) Extension lectures throughout the Province. (4) Evening classes offering continuous courses in fifty subjects, without Univ. credit. (5) Correspondence courses in commercial subjects. (6) Two-yr diploma courses in Occupational Therapy and in Physiotherapy. (7) A one-yr. diploma course in teaching and administration for Graduate Nurses. (8) Workers' Educational Association classes. (9) Short refresher courses for nurses and others. (10) Publication and distribution of various bulletins and pamphlets for the Univ. and for the Royal Ontario Museum. (11) Univ. exhibits. (12) Radio lectures. Total no. attending Extension lectures, 29,287. Total no. in Extension courses and classes, 5159. Director—W. J. Dunlop, B.A., B.Paed.

**PUBLICATIONS.** *President's Annual Report*; *Board of Governors' Report*; *Calendars*, April-May; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. of Toronto Monthly*; *Can. Historical Review* (Univ. Monthly); *Univ. Studies*; Students' Mags.—*'Varsity, Torontonensis*.

## THE YEAR 1931-32

**BENEFACTIONS.** During the past year ending May 31, 1932, the Univ. has received the following benefactions, totalling \$121,869: From the Eaton Endowment, annual payment, \$25,000; University Coll. Alumnae Assn., towards furnishings of Whitney Hall, \$25,000; Rockefeller Foundation, for Child Research and Parent Education, \$21,281.25; Carnegie Corporation, Education Research, \$11,275; Rockefeller Foundation, Paediatrics, \$8025; Maurice Hutton Schol'p. (anon.), \$5000; Univ. of Toronto Engineering Soc., \$3878.25; Canadian National Committee Mental Hygiene, Psychiatry, \$2800;

Mrs. Jessie M. Stewart, John A. Stewart Fund for Pernicious Anæmia, \$2500; Sir Joseph Flavelle and E. R. Peacock, for Flavelle-Peacock Lectureship, \$2500; Graduate Fellowships donated by Sir Joseph Flavelle, Estate of late Sir Edward Kemp, Imperial Oil, Ltd., and Robert Simpson Co. (1932-33), \$2500; J. H. Gundy, William E. Wilder Fellowship, \$1500; Estate of the late Col. H. J. Grasett, C.M.G., Grasett Memorial Schol'p. in Classics, \$1250; Social Science Schol'ps.: Community Welfare Council of Ontario and Anonymous, \$1200; D. A. Dunlap Memorial Schol'p., \$1000; Faculty of Dentistry: Ash Temple Schol'p., Ontario Dental Assn. Fellowship, and J. B. Willmott Schol'p., \$750; Empire Travelling Schol'p. (anon.), \$650; Robert Bruce Schol'p., \$503.71; Gertrud Davis Fellowship, \$500; Consolidated Mining and Smelting Co. of Canada, Ltd., and Star Printing & Publishing Co., for Botanical Research, \$800; E. C. Whitney Bequest, \$498.96; Robert Simpson Co. Schol'p., \$350; Sir Edmund Walker Schol'p., \$300; University Coll. Alumni Schol'p., \$300; Library Psychology Fund, \$428.75; Rev. Dr. H. J. Cody: H. J. Cody Schol'p., Matricn., Maurice Cody Memorial Schol'p., Mod. Hist., and Maurice Cody Memorial Schol'p., University Schools, \$225; Mrs. H. J. Cody: Maurice Cody Schol'p., Matricn., Maurice Cody Memorial Schol'p., Mod. Hist., \$200; Sir John Eaton Memorial Schol'p., \$120; Hon. N. W. Rowell, K.C., for Langford Rowell Schol'p., \$100; Delta Phi Epsilon Schol'p., \$110.50; J. J. Gibson Matricn. Schol'p., \$100; University Coll. Alumni Schol'p., \$100; Darling & Pearson Prize in Architecture, \$100; A. H. Jarvis Bursaries, \$100; The Boiler Inspection and Insurance Co. Schol'p. (Mech. Eng.), \$150; Ontario Assn. of Architects' Schol'p., \$100; and 16 of amounts varying from \$75 to \$7.80.

**NEW BUILDINGS AND ADDITIONS.** Formal opening of Whitney Hall, University College Residence for Women, Sept. 1931; formal opening of the new laboratories of the Dept. of Min. Eng., Nov. 7, 1931; formal opening of the Mill Bldg. (Botany), June 8, 1932; addition to Ontario College of Education, commenced May 1931; East and North Wings, Hygiene Building, commenced in 1931; addition to Royal Ontario Museum, commenced Jan. 1931.

**NEW REGULATIONS.** The reduction of the Pass B.A. course from 4 years to 3 years, with Honour Matricn. as the entrance requirement.

**RETIREMENTS.** Sir Robert Falconer, as President of the Univ.; Prof. A. Primrose (Surg.); Prof. F. Tracy (Ethics).

**RESIGNATIONS.** Prof. J. C. McLennan (Physics); Prof. J. C. Fields (Maths.); Prof. H. D. Kay (Bio-Chem.); W. E. Willmott (Dentistry); Prof. B. Farly (German).

**DEATHS.** Prof. John Walker Macmillan (Sociol. (V.)); Prof. J. C. Fields (Maths.); W. S. Guest (Elect. Engin.).

**VISITING PROFESSORS.** Prof. J. T. Shotwell (History), Columbia Univ., New York, delivered the Marfleet Lectures; Sir William Craigie (English), Univ. of Chicago (on exchange), delivered the Alexander Lectures; Prof. W. de Sitter (Astron.), Univ. of Leyden, Holland; Prof. R. Woltereck (Biol.), Univ. of Leipzig, Germany; Dr. L. P. Jacks (Soc. Science), Univ. of Leipzig, Germany; Prof. P. Debye (Physics), Univ. of Leipzig, Germany; Prof. J. Escarra (Law), Univ. of Paris, France; Prof. F. von der Leyen, Univ. of Cologne, Germany; Dr. R. Matas (Surgery), Tulane Univ., New Orleans, La., delivered the Lister Lecture; Dr. A. C. Seward (Bot.), Univ. of Cambridge, delivered one lecture.

**HONORARY DEGREES.** LL.D.—The Rt. Hon. Lord Irwin, K.G., G.C.S.I.;

Margaret Eleanor Theodora Addison, B.A. D.Sc.—Albert Charles Seward, Sc.D., F.R.S. D.Arch.—John Andrew Pearson.

STUDENTS. The total number of registered students was 8088.

DEGREES. Ph.D., 23; M.A., 98; M.A.Sc., 13; M.Arch., 2; C.E., 1; Chem.E., 1; E.E., 1; M.E., 2; D.Pæd., 4; Mus.Doc., 1; M.S.A., 5; B.A., 541; B.Comm., 62; M.D., 155; B.Sc. (Med.), 9; B.A.Sc., 115; B.Arch., 2; B.H.Sc., 65; B.Pæd., 55; B.Sc.F., 11; Mus.Bac., 2; D.D.S., 38; B.Sc. (Dent.), 3; LL.B., 3; B.S.A., 48; B.V.Sc., 21; Phm.B., 110.

## UNIVERSITY OF TRINITY COLLEGE, TORONTO

*(Federated with the University of Toronto.)*

CHANCELLOR—.....

VICE-CHANCELLOR AND PROVOST—Rev. F. H. COSGRAVE, M.A., D.C.L.

DEAN OF RESIDENCE—Rev. G. F. KINGSTON, M.A., B.D., Ph D.

REGISTRAR—J. N. WOODCOCK, M.A. Ox.

DEAN OF DIVINITY—THE PROVOST.

LIBRARIAN—S. M. ADAMS, M.A.

BURSAR—SYDNEY H. JONES.

PROFESSORS AND LECTURERS: The Profs, etc., marked (T.) in the consolidated list of the University of Toronto.

The University of Trinity College, founded 1851, Royal Charter, 1852, federated with the Univ. of Toronto, 1904, now confines its Univ. work to the two Faculties of Arts and Divinity. As an Arts College it forms an integral part of the Fac. of Arts of the Univ. of Toronto. The courses of instruction are prescribed by that Univ. Instruction is given in the Coll. in all subjects assigned to the Arts Colls. These include Greek, Latin, Greek and Roman Hist., Ancient Oriental Hist., Oriental Langs., Engl., German, French, Ethics, and Religious Knowledge. Instruction in other subjects of the Arts Courses is given by the Univ. Students of the Coll. receive the degrees of the Univ. of Toronto at the conclusion of their courses. As a Theological Coll., Trinity maintains its own Fac. of Divinity and confers degrees.

LIBRARY, 35,000 vols.

PUBLICATIONS. *Calendar* (May); *Trinity Univ. Review*, monthly; *St. Hilda's Quarterly Chronicle*; *Trinity Univ. Year Book*, annually.

THE YEAR 1931-32. Students: Full-time, 332, including 10 graduates. DEGREES: D.D., 1; B.D., 1; L.Th., 5; Arts Degrees listed under Univ. of Toronto.



# VICTORIA UNIVERSITY, TORONTO

(Federated with the University of Toronto.)

Telegraphic Address : Viccollege, Toronto.

PRESIDENT AND CHANCELLOR—Rev E. W. WALLACE, M.A., D.D.

REGISTRAR—C. E. AUGER, B.A.

LIBRARIAN—Rev. F. L. BARBER, M.A., Ph D.

LIBRARY TUTOR—Rev. H. MATHESON, LL.B., D.D.

## PROFESSORS AND LECTURERS

[See also the consolidated List under Toronto, names marked (V).]

<i>Church History</i>	<i>Old Testament Lit. and Exegesis</i>
Cousland, Rev. K. H., M.C., M.A. Ox., B.D. Prof.	Davidson, Rev. R., M.A., Ph.D., D.D.
<i>Ethics</i> [Ryerson Prof.]	Eliza Phelps Massey Prof.
Lane, W. B., M.A., Ph D.	<i>Philosophy and History of Religion</i>
Brown, W. T., M.A., Ph.D. (and Philos. of Religion) Prof.	Line, Rev. J., M.A., B.D., S.T.D. Prof.
<i>Homiletics and Pastoral Theology</i>	<i>Preaching</i> [Lectr.]
Johnston, Rev. A. J., B.A., D.D. Margaret Cox Prof.	Barber, Rev. F. L., M.A., Ph.D.
<i>Missions</i>	<i>Public Speaking</i>
Wallace, Rev. E. W., M.A., D.D. Prof.	McMullen, Rev. G. A., B.A. Lectr.
<i>New Testament Lit. and Exegesis</i>	<i>Religious Pedagogy</i>
Michael, Rev. J. H., M.A., D.D. Geo. A. Cox Prof	Langford, Rev. F. W., B.A., M.R.E. Prof
Dow, Rev. J., M.A., D.D. Prof.	<i>Systematic Theology</i>
	Macleod, Rev. J., M.A. Glas. Prof.

## GENERAL INFORMATION

In 1928, by Act of the Legislature of the Province of Ontario, Victoria University, originally founded as the Upper Canada Academy in 1836, received an amended charter by which it continues in federation with the University of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist, and Presbyterian Churches in Canada), and includes within itself, under one Board of Regents and one Senate, two Colleges, Victoria College in Arts and Emmanuel College in Theology, the latter formed by the union of the Victoria University Faculty of Theology with Union Theological College. For early history, see *Yearbook* for 1929.

**LIBRARY.** Special features—Canadian verse and Tennysonianism (C. C. James's collections), Methodism in Canada, Education in Ontario.

**COURSES.** 3 yrs. for Pass B.A.; 4 yrs. for Genl. Course and Hons. Courses; 3 yrs. for B.D., subsequent to graduation in Arts; 3 yrs. for Diploma, subsequent to 3 or 4 yrs. in Arts.

HOSTELS for 225 men and 206 women students.

PUBLICATIONS. *Theological Calendar* (May); *Bulletin* (July); *Acta Vict.*, a students' monthly.

## THE YEAR 1931-32

On Tuesday, June 7, the one-hundredth anniversary of the laying of the corner-stone of the old College building at Cobourg was celebrated by 217 graduates and friends of Victoria in a pilgrimage to the scene of that significant ceremony in 1832. This pilgrimage is preliminary to the celebration in 1936 of the centenary of the granting of the Royal Charter, and the opening of the College.

BENEFACTIONS. Building Fund Campaign Collections, \$88,000.

RETIREMENTS. Rev. Prof. J. F. McLaughlin (Orient. Lang. and Lit.); Prof. J. C. Robertson (Gk. Lang. and Philos.); Prof. A. E. Lang. (German Lang. and Lit.).

DEATHS. Rev. Prof. A. Gandier (Pastoral Theol.), Rev. Prof. J. W. Macmillan (Sociology).

HONORARY DEGREES. D.D.—Rev. John Coburn, Rev. Charles Wesley De Mille, Rev. Prof. David Strathy DIX, Rev. Henry James Pritchard.

NUMBER OF STUDENTS. *Victoria College* (Arts): full-time, preparing for B.A., 950; Part-time, occl., 6; Household Sci., 24. *Emmanuel College* (Theology): Full-time, 67; Part-time, 20.

DEGREES CONFERRED. B.D., 7; Dipl.Th., 17.

DEGREES OBTAINED. B.A., 150; B.Com., 9.

# UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—  
Rt. Rev. J. MORRISON, D.D., Ph.D., Bishop of Antigonish.

PRESIDENT-RECTOR—Very Rev. H. P. MACPHERSON, D.D., D.C.L.

VICE-PRESIDENT—Rev. D. J. MACDONALD, Ph.D.

VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Rev. L. G. MCKENNA, M.A.

BURSAR—Very Rev. D. C. MACKAY, B.A.

LIBRARIAN—Miss MARY MACDONALD.

REGISTRAR—Rev. Prof. P. J. NICHOLSON, Ph.D.

DIRECTOR OF STUDIES—Rev. Prof. R. K. MCINTYRE, B.Sc., M.A.

## PROFESSORS, LECTURERS, ETC.

<i>Biology</i>	<i>English Lit.</i>
Chisholm, Rev. J. C., M.A. Prof.	..... Prof.
	Kenney, J. L., Ed.M. Harv. Assoc. Prof.
<i>Chemistry</i>	<i>French</i>
Mullins, E., Ph D. Cath. Univ. of Amer. Prof.	Roché, A. J., L. ès L. Paris Carnegie Prof.
McIntyre, Rev. R. K., M.A. Cath. Univ. of Amer. Prof.	Raiche, Rev. J. F., M.A. Prof.
<i>Classics</i>	<i>Gaelic</i>
MacPherson, Very Rev. H. P., D.D. Laval, D.C.L. Kings (Latin) King's Prof.	Nicholson, Rev. Prof P. J. Lectr.
Sears, Rev. L. B., M.A. Ox. Prof.	<i>Geology and German</i>
<i>Commerce</i>	MacPherson, Rev. H, Ph.D. Urb., D.D. Rome Prof.
O'Brien, J. F., M.B.A. Harv. Prof.	<i>History</i>
<i>Economics and Sociology</i>	Somers, Rev. H. J., Ph.D. Cath. U.A. Prof.
MacDonald, Rev. D. J, M.A., Ph D. Cath.U.Am. Prof.	<i>Italian</i>
<i>Education</i>	Sears, Rev. Prof. L. B. Prof.
Coady, Rev. M. M., D.D. Urb., Ph.D. Prof.	<i>Mathematics</i>
Chaisson, A. F., M.A., Ed.M. Harv. Assoc. Prof.	McKenna, Rev. L. G., M.A. Prof.
	Clark, G. L., B.Sc. N.S.T. Assoc. Prof.
<i>Engineering</i>	<i>Philosophy</i>
Clarke, T. G., B.Sc., N.S.T. Prof.	MacEachern, Rev. M., S.T.L. Prof.
Eager, R. F., M.E. Consulting E.	Mont.

Perrin, F. E., B.A. Tor. (Law)  
Lectr

Carruthers, C. C., B.A., LL.B.  
(Comm. Law) Lectr.

### *Elocution*

Walker, Jean I. Instr.

### *English*

Tamblyn, W. F., M.A. Tor., Ph.D.  
Col. Prof.

Spenceley, J. A., B.A. Tor., M.A.  
Harv. Assoc. Prof.

Albright, Evelyn, B.A. Tor., M.A.  
Chic. Asst. Prof.

Neville, Jean T., M.A. Lectr.

Liddicoatt, Doris, M.A. Lectr.

Wrighton, Marion, B.A. Lectr.

Milne, W. S., M.A. Tor. Instr.

Stiling, F., M.A. Instr.

### *French and Italian*

Bassett, M. E., B.A. Mich., A.M.  
Princeton Prof.

Turville, Dorothy, Ph.D. Col.  
Asst. Prof.

### *French and Spanish*

Collin, W. E., B. ès L. Toulouse,  
M.A. Asst. Prof.

2 Instrs.

### *Geology*

Russell, J. W., M.A. McM. Prof.  
1 Instr.

### *German*

James, N. C., B.A. Tor., Ph.D.  
Halle, LL.D. Emer. Prof.

Allen, R. A., M.A. Tor., Ph.D.  
Chic. Assoc. Prof.

2 Instrs.

### *Hebrew*

Waller, C. C., M.A. Camb., D.D. [Prof.]

### *History*

Dorland, A. G., B.A. Qu., M.A.  
Yale, Ph.D. Tor. Prof.

Landon, F., M.A. Assoc. Prof.

Maine, S. F., B.A., B.D. Vict.,  
M.A. Chic. Asst. Prof.

1 Instr.

### *Law*

Perrin, F. E., B.A., K.C. Lectr.

*Library Science*  
2 Instrs.

*Mathematics and Astronomy*  
Kingston, H. R., M.A. Qu., Ph.D.  
Chic. Prof.

Patterson, W. J., M.A. Qu.  
Emer. Prof.

Woods, A., M.A. Qu. Assoc. Prof.  
1 Instr.

### *Medicine, v. infra*

*Philosophy and Psychology*  
Liddy, R. B., Ph.D. Tor. Prof.  
Sage, G. B., M.A. Trin., D.D.,  
LL.D. Lectr.

### *Physical Education*

Crocker, J. H., M.P.E. Springfield  
(men) Dir.

Plumptre, Joyce, B.A.  
(women) Asst.

*Physics* [Prof.]  
Dearle, R. C., B.A., Ph.D. Tor.

Allen, R. L., M.A. Mt. All.  
Assoc. Prof.

Foster, Willena, M.A. Tor.  
Asst. Prof.

1 Instr.

### *Physiology*

Miller, F. R., M.A., M.B. Tor.,  
M.D. Mun., F.R.S.C., F.R.S.  
Prof.

Laughton, N. B., B.A. Tor., M.Sc.,  
Ph.D. Chic. Assoc. Prof.

### *Secretarial Science*

Keyes, M. Asst. Prof.  
3 Assts.

### *Zoology*

Robertson, A. D., M.A. Tor. Prof.  
Battle, Helen, M.A., Ph.D. Tor.  
Asst. Prof.

3 Assts.

### *Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

### *Anæsthetics*

Jepson, G. L., M.D. Asst. Prof.  
2 Assts.

- Medicine* [Emer Prof. Ferguson, J. I., M.D. Asst. Prof.  
Macgregor, J. A., M.D., LL.D. 2 Instrs.
- Pharmacology*  
Hale, G. C., M.D., C.M. McG. Prof. Crane, J. W., M.B. Tor. Prof.  
Childs, J. R. N., M.D. Assoc. Prof. Waud, R. A., M.D., M.Sc., Ph.D.  
Campbell, F. J. H., B.A., M.D., Chic. Assoc. Prof.  
M.R.C.P. Assoc. Prof.  
Hughes, F. W., M.D. Asst. Prof. 1 Demr.  
Watson, E. M., M.D., M.R.C.P. *Physiotherapy*  
Edin., M.Sc. Asst. Prof. McLean, W. J., M.B. Assoc. Prof.  
14 Instrs. 1 Instr.
- Obstetrics and Gynaecology* *Psychiatry*  
Clegg, F. R., M.D. Assoc. Prof. Vrooman, F. S., M.B. Assoc. Prof.  
Tew, W. P., M.B. Tor., F.R.C.S. 1 Instr.  
Edin. Assoc. Prof.
- Public Health*  
2 Instrs. Slack, A. J., Ph. C. Mass., M.D.,  
D.P.H. Prof.  
Downham, W. S., M.D., D.P.H.  
Lectr.
- Ophthalmol., Otol., Rhinol., and Laryngol.* *Radiology*  
Thompson, S., M.D., F.A.C.S. McNeill, G., M.D., F.A.C.S. Prof.  
3 Instrs. 1 Instr.
- Pathology and Bacteriology* *Surgery*  
Fisher, J. H., M.Sc., M.D. .... Prof.  
(Bact.) Prof.  
Luney, F. W., M.D., D.P.H. Wilson, J. C., M.D., F.A.C.S.  
(Path.) Assoc. Prof. Assoc. Prof.  
5 Instrs.
- Pediatrics*  
Tillmann, W. J., M.D. Prof. Ramsay, G. A., M.D., F.A.C.S.  
(Orthop. S.) Assoc. Prof.  
Lindsay, J. C., M.B. Tor. Busby, E. D., B.A., M.D., F.A.C.S.  
Asst. Prof. Asst. Prof.  
5 Instrs.

## AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, Sandwich, Ont. Principal, Prof. of Classics, V. L. Kennedy, M.A. Tor. 13 other Profs. of Arts subjects.

URSULINE COLLEGE, London, Ont. Dean and Prof. of Maths., Mother M. Immaculate, B.A. Tor. 16 other Profs. of Arts subjects.

WATERLOO COLLEGE, Waterloo, Ont. Dean, Prof. of Hist., W. C. Froats, M.A., B.Pæd. Tor. 15 others in Arts Dept.

The above three Colleges give the full 4-yr. Arts Courses.

ALMA COLLEGE, St. Thomas, Ont., is a Junior Coll., giving the first 2 yrs. in Arts only. Principal, P. S. Dobson, M.A. Ox. 8 other teachers.

HURON COLLEGE, London, Ont., is a theological coll. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Rt. Rev. Bishop of Huron, D.D., LL.D., Lectr. in Bib. Exeg.; Rev. F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Rev. S. E. McKegney, M.C., M.A. Ox., Prof. of Ch. Hist.; Ven. Archdeacon Sage, M.A., D.D., LL.D., Prof. of Apologetics; Rev. T. G. Wallace, M.A., Prof. of Homiletics.

## GENERAL INFORMATION

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control. It consists of 3 Instns., the Coll. of Arts (University College), the Medical School, and the Institute of Public Health.

**FACULTIES.** Colleges of Arts, Medical School, Public Health.

**DEGREE COURSES.** 4 yrs. (from Junr. Matricn.), B.A.; 5 yrs., B.Sc. (in Nursing); 1 or 2 yrs., M.A. and M.Sc.; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate. C.P.H.N., C.I.N. and C.H.A. courses (1 yr.) provided for graduate nurses.

**THE LIBRARIES** contain c. 100,000 vols. and several thousand pamphlets. The Barnett Collection contains many rarities dealing *inter alia* with Canadian and American history. The Shakespeariana number c. 1500 vols. and several thousand pamphlets.

**PUBLICATIONS.** *Calendar* (May); *Report of Faculty of Public Health* (May); *Medical School Announcement* (May); *Univ. Gazette*, weekly during term.

## THE YEAR 1931-32

**BENEFACTIONS.** \$50,000 bequest by late Col. W. M. Gartshore.

**EXTRA-MURAL WORK.** Regularly carried on.

**DEATH.** Col. T. J. Murphy, K.C., Member of the Board of Governors since 1908.

**HONORARY DEGREES.** *LL.D.*—George Howard Ferguson, High Commissioner for Canada in Gt. Britain.

**STUDENTS.** Full-time: total, 1121, including 2 graduates. Part-time: total, 133, including 26 graduates. Summer School, 196. Extra-mural, 131. Extension, 112.

**DEGREES OBTAINED.** B.A., 180; B.Sc., 3; M.A., 5; M.Sc., 3; M.D., 37; B.D., 1.

**CERTIFICATES (NURSING).** C.P.H.N., 15; C.H.A., 1.

# NEWFOUNDLAND MEMORIAL UNIVERSITY COLLEGE AND NORMAL SCHOOL, ST. JOHN'S

**PRESIDENT.** J. L. Paton, M.A. Camb.

**PROFESSORS.** Hatcher, A. G., M.A. McG. (Maths.); Hunter, A. C., M.A. Ox., B.A. Lond., D. ès L. Paris (Engl. and French); Faull, J. H., Ph.D. Harv. (Chem.); Sleggs, G. F., M.Sc. Liv. (Biol.); Harling, R. T., B.Sc. Lond. (Physics); McGrath, Miss H., M.A. Tor. (English, Latin).

**LECTURERS.** Avis, Miss S M, B.A. Lond. (French, Spanish); Fraser, A. M., M.A. Edin. (Hist. and Econ.); Hunter, Mrs. A. C., M.A. Denver (Spanish and French); Knowling, Mrs P. H. (Bot.); MacIntosh, C. D. A., B.Eng. Nov. Sc. (Engn.).

**PRINCIPALS OF NORMAL SCHOOL.** S. P. Whiteway, B.Sc. Columbia, LL.D. Mt. All.; Lodge, Miss Helen, B.A. Tor.

The College, built by the Govt. as a War Memorial, was opened in 1924.

The curriculum covers the first two years of the Univ. Courses in Arts, Pure Sci., Med., and the first 3 yrs. in Engin. To students who have completed the work for the first and second years in the Coll. third-year status is granted by the following Univs.: (1) All the Univs. of the maritime Provs. (2) Toronto, in Arts. (3) Columbia, Harvard. McGill recognizes the first year's course of the Coll. as qualifying for admission to second-year courses, and is prepared to consider on its merits the case of any student who has completed his second year at the Coll. who may apply for admission to third-year status.

**ADMISSION.** Junior Matricn. of the Newfd. Council of Higher Educn., conducted by Joint Matricn. Bd. of Maritime Provinces, or equivt.

**FEES.** For full course, \$50 p.a.

**EXTRA-MURAL COURSES** are provided in most Arts and Science subjects, also in Navigation, Mechanical Drawing, Building Construction, Marine Engineering, Chemistry, Pharmacy, Art, and Courses for Nurses.

A **SUMMER SCHOOL**, specially designed for teachers, is held in July.

The **LIBRARY**, 6000 vols., including gift from Rev. Dr. G. J. Bond of books of late Sir Robert Bond, sometime Premier of Newfd.

**SCHOLARSHIPS.** Three Leaving Schol'ps. of \$300 have been specially endowed. A yearly Scholarship of \$500 is given by the Internat. Power Paper Co. to the first student in Engin. A students' Loan Fund has been founded. The Carnegie Corporation have made grant of \$7500 to the Trustees to enable them to make grants in aid to students in the Coll.

Acadia offers annually one schol'p. of \$125, and Mt. Allison one of \$125 and one of \$62.50. These schol'ps. are tenable for 2 yrs. Dalhousie offers annually one schol'p. of \$200, tenable for one year.

Students of the College are eligible for Rhodes Scholarships.

## THE YEAR 1931-32

**BENEFACTIONS.** Collection of Pictures given by the Carnegie Corporation.

**NEW BUILDINGS.** A new wing costing \$200,000.

**NEW DEPARTMENTS.** Pre-Engineering Course established.

**STUDENTS.** Full-time: total, 154. Part-time: total, 16, including 5 graduates.

# THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

Cable Address : " Stomata," Port-of-Spain.

CHAIRMAN OF THE GOVERNING BODY—Sir JAMES CURRIE, K.B.E., C.M.G., M.A.

VICE-CHAIRMAN—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., LL.D., F.R.S.

PRINCIPAL—GEOFFREY EVANS, C.I.E., M.A., Dip.Agr.

COMMISSIONER OF AGRICULTURE—Prof. H. A. BALLOU, M.Sc.

ASSISTANT COMMISSIONER OF AGRICULTURE—G. A. JONES, Dip.Agric. Bangor.

SECRETARY—Sir ALGERNON ASPINALL, C.M.G., C.B.E., B.A., 14 Trinity Square, London, E.C.3.

REGISTRAR, EDITOR, AND LIBRARIAN—G. G. GIANETTI, M.A., Dip.Agr. (Econ.).

## PROFESSORS AND LECTURERS, ETC.

*Agriculture* [Prof.  
Wood, R. Cecil, M.A., Dip.Agr.  
Paterson, D. D., B.Sc. Agric. and  
For. Edin. Lectr.

*Botany and Genetics*  
Cheesman, E. E., M.Sc. Lond.,  
A.R.C.S. Prof.  
Wright, N., B.Sc. Lectr.

*Chemistry and Soil Science*  
Hardy, F., M.A., Dip.Agr. Camb.  
Prof.

Lecturers :  
Turner, P. E., B.Sc. Lond., F.I.C.  
(Seconded)  
Duthie, D. W., M.A., B.Sc. Aberd.

*Economics*  
Shephard, C. Y., B.Sc. (Econ.)  
Lond. Prof.

*Mycology and Bacteriology*  
Briton-Jones, H. R., D.Sc. Lond.,  
Ph.D. Prof.  
Briant, A. K., M.A., Dip.Agric.,  
A.I.C.T.A. Lectr.

*Sanitation and Tropical Hygiene*  
Dickson, J. R., O.B.E., M.B.,  
B.Sc., D.Ph.

Med. and Health Officer.  
*Sugar Technology*  
Davies, J. G., D.I.C.T.A.  
Asst. Technologist.

*Veterinary Science* [Lectr.  
Metivier, Capt. H. V. M., O.B.E.,  
B.Sc.Vet.Sc. Lond., M.R.C.V.S.

*Zoology and Entomology* [Prof.  
Ballou, H. A., M.Sc.Mass.Agr.Coll.  
Urich, F.W., F.E.S., V.D. Asst.Prof.

*Banana Research*  
Wardlaw, C. W., B.Sc., Ph.D.,  
F.R.S.E. Pathologist.  
McGuire, L. P., M.Sc., Ph.D.,  
D.I.C. Physiologist.

*Cacao Research*  
Botanists :  
Pound, F. J., B.Sc. Lond.  
Pyke, E. E., B.Sc. Lond.  
McDonald, J. A., Dip.Agric.,  
A.I.C.T.A. Chemist.

## GENERAL INFORMATION

Incorporated in Sept. 1921 and reincorporated by Royal Charter on Nov. 23, 1926, the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land



in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The Imperial Dept. of Agric., which was founded in 1898 and was amalgamated with the Coll. on April 1, 1922, is now known as the Advisory Dept. of the Imperial Coll. of Tropical Agriculture, and is administered by the Commissioner of Agric. The post of Commissioner of Agric. was separated from that of Principal of the Coll. as from April 1, 1927, and is now held by the Prof. of Entomology. He serves as a Liaison Officer between the Coll. and the several island govts. He supervises the botanic and experiment stations located at St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Govt. of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agric. in schools. The Staff was strengthened by the appointment on July 1, 1929, of an Asst. Commissioner of Agric. On the transfer of the headquarters of the Dept. to Trinidad in Sept. 1922 the services of all the officers were retained on the staff of the Coll., and remain available for the work of the Dept.

**RECENT DEVELOPMENTS.** The Foundation Stone of New Buildings and Laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924. An Instructional sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, was opened in 1925. A Low Temperature Research Station for work on bananas and other tropical fruits was completed in September 1929. It is financed by the Empire Marketing Board. An Agricultural Field Office, and a new Chemical Block, in which the Dept. of Sugar Technology is also housed, were completed in August 1929. The Milner Hostel and College Dining Hall were completed in 1927.

The income of the College is derived from contributions by the principal West Indian colonies, Nigeria, the Gold Coast, Sierra Leone, the Empire Marketing Board, the Empire Cotton Corporation, and the British Cotton Growing Association.

The academic year extends from October 1 to June 30.

**COURSES.** (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T.A. to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology; (2) one-year course in elementary Agr. Science for students unable to afford (1), with some practical acquaintance with the scientific side of tropical planting and the more up-to-date and efficient methods of production and management; (3) courses for Agr. officers selected for Colonial service in T.A. departments.

**POST-GRADUATE RESEARCH.** Facilities are provided for work in connexion with problems arising in T.A., and more especially those connected with plant pathology, agronomy, physiological botany, and sugar technology.

**TUITION FEES:** £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.; Foreign Students, £100 p.a.

**PUBLICATIONS.** *Calendar* (Oct.); *Tropical Agriculture* (monthly).

## THE YEAR 1931-32

**STUDENTS.** Full-time, 44; graduates, 24; preparing for diploma, 18; special course, 1. Refresher Course Students, 1; Diplomas obtained, 6.

# THE UNIVERSITIES OF AUSTRALIA

ADELAIDE	MELBOURNE	QUEENSLAND, BRISBANE
SYDNEY	TASMANIA, HOBART	WESTERN AUSTRALIA, PERTH

## GENERAL DESCRIPTION

[Revised by Prof. J. T. Wilson, M.A., LL.D., M.B., F.R.S., St. John's College, Cambridge, formerly representing Australia on the Executive Committee of the Universities Bureau]

EACH State of the Commonwealth of Australia possesses a University in its capital city. Geographically they are by no means near neighbours. Those most widely separated—at Brisbane and Perth respectively—are effectively not less than 3000 miles apart; whilst to visit even the nearest sister University involves in each case a journey of some 500 miles.

Nevertheless these Universities form a relatively homogeneous group owing to their general similarity of origin and constitution and to their relationship to the communities which they serve. All of them owe their establishment to Acts of the State Legislatures carried through in response to popular demands. They are not, however, "State Universities" in the American sense, but, like the British Universities generally, are, by statute and Royal Charter, self-governing academic corporations.

Underlying this general uniformity of type there are not a few individual differences and variations. These may be referred to several factors: differences in dates of foundation (1850–1911) necessarily determine more or less the stage and degree of academic development actually reached; also, the academic ideas current at different foundation periods have undoubtedly impressed themselves on the academic structure and development of both older and younger Universities. Further, another obviously important differentiating factor has been that of inequality of material resources available, both from private endowment and from State subsidy—the latter being naturally dependent in large measure on the extent of the population of the State concerned.

**RESIDENTIAL COLLEGES.** A residential University of the traditional Oxford and Cambridge type was without doubt the ideal in the minds of the founders of the first Australian Universities. But they recognized clearly that the accepted secular basis of the civil government precluded the attempt at its full realization. Accordingly, a compromise was effected by the statutory allocation of areas of the University domains to be placed at the disposal of the leading religious denominations for the establishment of independent Colleges "within the University," to provide for residence and religious supervision of matriculated students of the University. Some other assistance in the way of endowment was also afforded.

Colleges of essentially similar character have since been set up in all the later founded Universities (with the exception, so far, of Tasmania). In addition, residential Colleges for women, of wholly undenominational character, have been founded in Sydney and in Queensland, and Colleges or Halls of residence for women on a denominational basis have been established in Sydney and Melbourne.

The Colleges and Halls of residence thus far established are :

SYDNEY—St. Paul's (1854, C. of E.) ; St. John's (1857, R.C.) ; St. Andrew's (1867, Presb.) ; The Women's College (1890, Undenom.) ; Wesley (1910, Meth.) ; Sancta Sophia (1929, R.C. for women).

MELBOURNE—Trinity (1872, C. of E.) ; Ormond (1879, Presb.) ; Queen's (1888, Meth.) ; Newman (1916, R.C.) ; Associated with Trinity and Newman respectively are Janet Clarke Hall (1886) and St. Mary's Hall, for women students

ADELAIDE—St. Mark's (1925, C. of E.) , St. Andrew's (1928, Presb.).

QUEENSLAND—Emmanuel (1912, Presb.) ; St. John's (1912, C. of E.) ; King's (1912, Meth.) ; Women's Coll. (1914, Undenom.) ; St. Leo's (1917, R.C.).

WESTERN AUSTRALIA—St. George's (1931, C. of E.).

All the Colleges possess their own independent governing bodies. In those under denominational control both clerical and lay elements are represented, frequently in definite proportions

Even in the older Universities of Sydney and Melbourne, where the College system is most strongly developed, only a comparatively small minority of the students are members of Colleges. Owing to the concentration of population in the capital cities of Australia, together with the fact that University students are largely drawn from the urban and suburban elements, the majority of the undergraduates reside in their own homes. In Sydney, and probably also in Melbourne, the collegiate students form only about fifteen per cent of the whole undergraduate body. Nevertheless, the influence of the Colleges on the general life of the University, intellectual, social, and athletic, is much more real and effective than their numbers would suggest.

CONSTITUTION OF UNIVERSITIES. A. *Governing bodies.* In their statutory constitution the governing bodies of all the Australian Universities present a generally similar composite character, whilst differing in the proportions of the component elements. Their membership varies in number from 18 to 31. In every case there is a substantial proportion of representatives elected by the general body of graduates, varying from one-third to more than one-half of the total membership, but only in two cases (Adel. and W.A.) does it form the preponderant element. In every University there is now a more or less direct representation of the State on the governing body, either by nomination by the Governor-in-Council or by election by the Houses of Parliament, and in two cases by *ex officio* representation of the State Ministry of Education. In the more recently founded Universities the representation of the State Government is strong ; in one instance it is equal to the academic, and in another it is even slightly preponderant.

The academic representative element invariably includes representatives of the teaching staff, though only in Sydney and Melbourne by independent statutory right. In most cases their number is by ordinance limited to three, elected as part of the general representation of the academic body by the graduates.

The Melbourne University Act of 1923 introduced certain novel provisions, namely, that the Government nominees shall include representatives not only of Parliament but of manufacturing, commercial, agricultural, and industrial interests, as well as a representative of the technical schools; it also provided that two Heads of Colleges and two elected representatives of the undergraduate body shall have seats on the governing body.

The governing body in the Australian Universities is designated either the "Senate" (Syd., Queens., W. Aust.), or "Council" (Melb., Adel., Tas.).

*B. Graduate academic body.* As in the British Universities generally, there is in each of the Australian Universities another statutory academic body, consisting in the main, though not in all cases exclusively, of the general body of graduates (usually of at least three years' standing). In Queensland the Governor-in-Council may appoint as members of this body one representative of "any commercial, industrial, scientific, professional, or educational society, institution, or association within Queensland." In the University of Western Australia the "Guild" of undergraduates has the right of electing one member of this body.

In those Universities in which the governing body is entitled "Senate" the graduate body is called either Convocation or Council. Where the governing body is styled "Council" the graduate body is called either Senate or (in Melb. since 1923) Convocation.

Whilst the main effective function of this body is its electoral choice of its own representatives on the governing body, it has also, in several Universities, powers of deliberation, approval, and confirmation in respect of matters submitted to it and in some instances of suggestion, but in no case of initiation of University legislation.

*C. Other administrative bodies.* The general routine of studies and discipline is usually controlled by a "Professorial Board," whilst the special curricula of studies are the immediate concern of the Faculties and special boards of studies. Matters of discipline are in one or two instances dealt with by a special Proctorial Board or Board of Discipline.

**ADMISSION.** Attempts are being made to devise a common matricn. The difficulty lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, e.g., Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs., provided (Sydney) they give evidence of distinct educational merit and are recommended by a three-fourths majority of the Faculty

of Arts and approved by the Senate. In Queensland and Western Australia (Arts) such persons are admitted on passing a special Adult Matriculation Examn. Owing partly to isolation by distance, migration of students from one University to another is not common. It would occur still more rarely were it not for the fact that several of the younger and smaller Universities do not yet provide opportunities for professional training in every direction, particularly in medicine. Hence it becomes necessary for some students, after one or two years' study in the University of their own State, to betake themselves to one of the older and larger Universities in order to prosecute their studies along definitely professional lines.

Although the requirements for entrance at the various Universities are not completely uniform, all possible reciprocity is exercised in the matter of such interchange of students, whether from Australian or British Universities.

**THE ACADEMIC YEAR.** Undergraduate status is ordinarily defined in terms of academic years of study, e.g. "first year," "fifth year," etc.

The academic year begins in March and ends in Nov. or Dec. It is subdivided into Terms, usually three, which may or may not include special examination periods. The Universities of Melbourne and Tasmania have each four Terms, but the fourth Term in these cases is devoted to examinations.

Although the inclusive dates of the terminal periods show some discrepancy in the different Universities, arrangements have been made to secure the coincidence of two of the inter-term vacations.

**PERIODS OF STUDY.** The Univ. requires not less than 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened to 6. The time needed to graduate in law may vary; the Melbourne and Sydney courses take 4 yrs., but West. Aust. allows Arts graduates to do their law in 3 yrs. To graduate in Engin. requires 4 yrs., in West. Aust. 5 yrs.; in Vet. Science, in Agric., in Economics and in Dentistry also 4 yrs. (Adelaide, 5 yrs.), subject to certain minor variations; in Architecture, 5 yrs.

**FEES AND COST OF LIVING.** The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But any where he will find that £200 a year gives him quite sufficient means for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney Univ. Union has a Refectory seating 450, and one-half of it is open to all members of the University and their guests. Adelaide Univ. has a Refectory seating 400, and Melbourne has a Union building and separate dining-rooms seating upwards of 350. Western Australia is at present using one-half of dining-rooms which could accommodate about 200. A developed Union at an Australian University also pro

vides all the comforts of a non-residential Club for about £1 a year. Rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 60 to 120 gs. per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 110 to 120 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term, and the rates at the other Queensland Colls are practically the same. The fees at St. Andrew's and at St. Mark's College, Adelaide, range from 110 to 125 gs. per annum. St. George's, Western Australia, charges £90 per annum. Special arrangements can always be made for residence during vacations; for an example, Ormond then charges 2½ gs. a week. Many men live in College on a total income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

A list of Univ. Fees payable at Adelaide, Melbourne, Sydney, and Tasmania is given below. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs. a year in Arts, 20 gs. in Science, and 21 gs. in Engineering, in addition to moderate fees for examn. and graduation. W. Australia charges fees for examns., laboratory materials, degrees, and certifs., but tuition fees only to overseas students.

*Adelaide.* Matriculation, £1:1s.; *Ad Eundem Statum*, £2:2s.; Admission to Degrees: Arts, Economics, Science, M.E., LL.M., £5:5s.; LL.D., M.D., M.S., D.D.Sc., Mus.Doc., D.Sc., D.Litt., £10:10s.; LL.B., £7:7s.; B.E., £3:3s.; Mus.Bac., £4:4s.; Diplomas in Educ., Commerce, Music, £2:2s. Degree Courses in Arts about £65; Economics about £57; Science about £125; Engineering about £120; Law about £90; Medical, 6 years, £240 (excluding Hospital, £56:14s., and Midwifery Clinics, £5:5s.); Dental, 5 years, £250; Music, £53:11s.; Tuition Conservatorium, £14:14s. minimum.

*Melbourne.* Matricn., 2 gs.; Degree, 10 gs.; Degree Courses in Arts, 3 yrs., about 72 gs.; Science, 30 gs. per yr.; Agric., 4 yrs., 81 gs.; Laws, 4 yrs., about 102 gs.; Med., 6 yrs., £258 (including Hospl. Fees); Engin., 4 yrs., 120 gs.; Vet. Sc., 4 yrs., £100; Music, 3 yrs., at conservatorium, 32 gs. p.a.

*Sydney.* Matricn., £3; Degree in Arts, Econ., Sc., Agric., or Vet. Sc., £3; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75; Econ., 4 yrs., £96; Law, £90 (Arts subjects additional); Med., £234 (excluding Hospl. Attendance, 21 gs., and practical Midwifery, 5 gs.); Dent., 4 yrs., £150 (excluding Dent. Hospl. £15 p.a.); Science, 3 yrs., £99; Engin., 4 yrs., £154 (Min. and Met. £168); Agric., 4 yrs., £118:10s.; Vet. Sc., 4 yrs., £114; Archt., 5 yrs., £182.

*Tasmania.* Matricn., £1:1s.; *Ad Eundem Statum*, £1; Admission to Degrees, including examn.: Bachelors, £3:3s.; Masters, £10:10s.; Doctors, £15:15s. Degree Courses in Arts (3 yrs.) about £47; Sci.

(3 yrs.), £52 to £63; Engin. (4 yrs.), £98; Law (4 yrs.), £71; Comm. (4 yrs.), £55: 10s to £60.

**CURRICULA AND COURSES OF UNIVERSITY STUDIES.** In general it may be said that the character and range of studies in the Australian Universities correspond fairly well with those of British Universities of comparable size and organization. There is, however, one notable exception: in accordance with the exclusively secular character of the Universities of Australia a Faculty of Theology is lacking in all of them, and no degrees in Divinity are obtainable in any Australian University. More or less associated with this situation is the absence of any courses of study in Oriental languages or literature, with the exception of Japanese, a Professorship for which exists in Sydney and in connexion with which lectures on Oriental history are also delivered. (A certain amount of teaching in Oriental languages is provided in Theological schools maintained by some of the religious denominations)

Subdivision of University studies into groups, under Faculties and Boards of Studies, has been carried further than is usually the case in British Universities. There has thus been a considerable accession of new Faculties beyond those traditionally recognized. The general principle has been largely, though not consistently, adopted that any definite and distinct curriculum leading up to the award of a distinctive degree or degrees, warrants the creation of a separate and distinct Faculty as a Board for the regulation of the studies and examinations in such a curriculum.

Concurrently with this development there has been a marked tendency to the specialization and multiplication of distinctive degrees, so that in some cases we find that even within the limits of a single Faculty several distinctive degrees are obtainable along more or less differentiated lines of study. A conspicuous instance of this is seen in the Faculty of Engineering in Melbourne, in which no fewer than eleven different degrees may be awarded as Bachelors and Masters of different branches of Engineering Science, Civil, Mechanical, Electrical, Mining, and Metallurgical, besides a Doctorate of Engineering Science. As many as thirteen different Faculties are found among the various Universities with a maximum number in Melbourne of eleven, or twelve if the Board of Studies in Architecture be included. In Sydney there are ten Faculties and in Adelaide nine, if the Board of Studies in Commerce be included.

Each University possesses Faculties of Arts, Science, and Engineering (designated "Applied Science" in Adelaide), and also of Law, although in Queensland this is not yet organized as a teaching school. All except Tasmania have Schools of Agriculture, although in Western Australia it is not a separate Faculty, but is included in the Faculty of Science. Melbourne and Sydney have Schools of Vet. Sci. organized under their separate Faculties; Western Australia teaches Vet. Sci. only as part of the Agric. course. The legal qualification for Vet. practice in Victoria is gained through the course of study in the Univ. of Melbourne. In N.S.W. and W. Australia the law requires such qualifications as practically involve the Univ. curriculum in Vet. Sci.

The subject of Economics is represented by separate Professorships in each University, except in Queensland, where there is a joint chair of History and Economics. In Sydney there is a special Faculty of Economics, but, as there is no Faculty of Commerce, it includes all the various branches of both Economic and Commercial Studies. In Melbourne, Queensland, and Tasmania there are Faculties of Commerce, and in Adelaide a Board of Commercial Studies, under all of which the subject of Economics finds its primary orientation along with the various branches of Commercial theory and practice. Economics, however, is ordinarily included also as a subject which may be taken for an Arts degree.

In Sydney there is a fully organized Faculty of Architecture, and in Melbourne a Faculty of Architecture with a teaching school, but as yet no chair in that subject.

Melbourne and Adelaide have each a Faculty of Music with a full Professorship and a Conservatorium. In Sydney there is a Conservatorium entirely independent of the University.

Melbourne alone has a separate Faculty of Education in which a special University degree of Master of Education (M.Ed.) is granted. The Faculty contains several representatives of the State Ministry of Education. In all the other Universities the subject of Education comes under the Faculty of Arts and enters into the composition of such alternative curricula for the Arts degrees as are specially adapted to the requirements of the professional training of teachers. Sydney, Melbourne, and Western Australia have Professors of Education who are also heads of the State Training Colleges. Special Diplomas in Education are obtainable in all the Universities, except Queensland and Tasmania, by University graduates (Syd. and Adel.) or by students who have qualified for a degree (W. Aust.) or have after matriculation pursued a three years' course of study (Melb.) and have had approved practical experience of teaching.

**PROFESSIONAL SCHOOLS AND RESEARCH INSTITUTES.** Each of the three older Universities, of Sydney, Melbourne, and Adelaide, possesses well organized and equipped professional schools under their Faculties of Medicine and Dentistry. These schools have long been, and are now, mainly responsible for the training of the medical and dental professions in Australia, whilst not a few of their graduates may be found occupying responsible positions outside Australia. The teaching and research staffs of these schools are also now largely recruited from the ranks of their own more distinguished graduates, but they are continually being reinforced by other teachers of distinction from outside Australia.

The relationship of the Medical Schools to the great general hospitals is intimate and effective. There is thus secured an extensive and varied clinical field, not only for undergraduate training, but in increasing measure for more advanced and specialized post-graduate study and research in conjunction with the scientific laboratories of the Universities and other Research Institutions. Such post-graduate work in various departments of specialized study now finds manifold guidance, and receives full official recognition, in connexion with the Diplomas awarded after appropriate courses of study. Amongst these



may be specified the Diploma in Psychiatry, the Australian Diplomas in Public Health and Tropical Medicine, and of Tropical Hygiene from the Federal School of Public Health, and Tropical Medicine in the University of Sydney, and more or less corresponding courses in the University of Melbourne, which also grants Diplomas in Ophthalmology, Laryngology and Otology, and Gynæcology and Obstetrics.

There are various University and associated Research Institutes in Adelaide, Melbourne, and Sydney, where investigation is carried on into problems of Pathology, Bacteriology, Pharmacology, Radiotherapy, Cancer Research, Animal Nutrition, Entomology, etc.

**DIPLOMAS.** Numerous University Diplomas are now obtainable in various branches of study in the Universities of Australia. They may be classed under three categories : (a) those obtainable by graduates as supplementary qualifications in particular subjects after special courses of study. To this group belong the post-graduate medical diplomas already mentioned and also certain Diplomas in Education ; (b) Diplomas obtainable by non-graduates after shorter or less comprehensive courses of study than those required for a University degree covering the same subject. This group includes certain Diplomas in Commerce, Public Administration, Agriculture, Engineering, and Music ; (c) Diplomas in subjects, usually of limited range, for which no special University degree is available, *e.g.*, Journalism and Anthropology.

**EVENING LECTURES.** Full University courses of evening lectures in Arts, and in some cases in Science, subjects are provided by the Universities of Adelaide, Melbourne, Sydney, and Western Australia to enable a degree in Arts to be obtained by persons whose occupations preclude their attendance at the University during the day.

**EXTERNAL STUDENTS.** Under the Regulations of the Universities of Melbourne, Queensland, and Western Australia attendance at lectures is not compulsory except in specified subjects. (These naturally include most scientific subjects which require laboratory facilities.) It is therefore possible, though not common, to obtain an Arts degree as a purely external student. In Western Australia correspondence classes for the benefit of external students are carried on by the University.

In the Universities of Adelaide, Sydney, and Tasmania exemption from one year's attendance on lectures may be granted in special cases in which reasonable cause is shown.

In all the Universities (except Queensland) there is provision for the recognition, as qualifying courses for degrees, of various courses of instruction in affiliated institutions, such as Technical Schools and Colleges.

**UNIVERSITY EXTENSION LECTURES** were instituted at Sydney Univ. in 1886 and at Melbourne in 1891. In 1913 Workers' Educational Associations were formed in all the States to give effect to a movement for bringing the Univs. into closer relationship with the masses of the people. The movement was fostered by State grants and grew rapidly. Each Univ. co-operates with the W.E.A. in the formation of a joint committee, which appoints tutors and supervises the work with the help of a Univ. officer—the Director of Tutorial classes. A federal

W.E.A. for Australia has its central office in Melbourne. The total number of students throughout Australia is about 6000, the greater number taking three-years' courses. In addition to these courses a great many preparatory classes, study circles and summer schools are organized by the Assocn., numerous courses of public lectures are delivered, educational conferences promoted, and an extensive book service is carried on. A correspondence study department has been inaugurated in connexion with the Univ. of Queensland. In Western Australia provision has been made for extension lectures in Perth and suburbs and in country centres.

**FREE PASSAGES TO EUROPE.** The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates proceeding to Europe to continue their studies : Adelaide, 3; Melb., 4; Queensland, 3; Syd., 4; Tasm., 2; W. Aust., 3; N.Z., 4, available by any of the following Lines : Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill & Albion.

**AUSTRALIAN STUDENTS IN THE HOME UNIVERSITIES, v. App XXV.**

#### CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The headquarters of the Committee are Melbourne University. The Chancellor of Melbourne Univ. acts as Convener of the Committee, and the Registrar as Honorary Secretary. A meeting of the Standing Advisory Committee or a Universities' Conference has been held annually since 1921.

An informal meeting of representatives of Adelaide, Melbourne, Queensland, and Sydney was held in Melbourne on Aug. 21, 1931, at the Univ. of Melbourne. It discussed the reductions in Government grant; the staffing of Departments and grading of Staff; Economy in Expenditure, the Finance of the Sydney Chair of Anthropology; the Sales Tax and Primage Duties and the question of establishing in the Public Services a division corresponding to the Class I. Division in Gt. Britain.

The Conference of representatives of the Universities was held at the University of Sydney, on Aug. 25, 1932. Chairman: Sir Mungo MacCallum, Deputy-Chancellor of the Univ. of Sydney. The Univ. of Western Australia was unable to be represented. The Conference discussed the new constitution of the Universities Bureau and appointed two representatives on the Council. They also discussed the Carnegie Travelling Grant; Matriculation Requirements; the Military Coll. Entrance Examn; Proposed changes in the academic year; Proposal for a combined Universities' Press; question of Professors and Membership of Parliament; Fee concessions to children of members of Staff; Admission of Graduates to the Public Service; Primage Duty and Sales Tax; Conditions of entry to Honour Examns.; the relationship of the Univ. to the Training of Nurses.

**STATISTICS** of University teachers, students, and finance are published annually by the Commonwealth Bureau of Census and Statistics in the official Year-Book.

# UNIVERSITY OF ADELAIDE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M.G., B.A., LL.M.,  
Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Sir WILLIAM MITCHELL, K.C.M.G., M.A., D.Sc.

REGISTRAR—F. W. EARDLEY, B.A.

HON. LIBRARIAN—J. A. FITZHERBERT, M.A. Camb.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*  
Mills, E. W., A.U.A., F.C.A. Aust.  
Lectr.

Ferres, L. W., F.C.A. Aust. Lectr.  
2 Tutors.

*Agriculture*, v. also *infra* Waite  
Agric. Res. Inst.

Richardson, A. E. V., D.Sc. Melb.,  
M.A. Waite Prof.

Prescott, J. A., M.Sc. Manc.  
(Agric. Chem.) Waite Prof.

*Animal Products*, v. *infra* Ani-  
mal Products Res. Founda-  
tion

*Anatomy*  
Wilkinson, H. J., M.D., Ch.M. Syd.  
B.A. Elder Prof.  
Mead, C. S., B.A., M.B., B.S.  
Lectr.

5 Hon. Demrs.

*Bio-Chemistry*  
Martin, Sir Chas. J., C.M.G., M.B.,  
D.Sc. Lond., F.R.C.P., F.R.S.  
Prof.

Mitchell, M. L., M.Sc. Camb. Lectr.  
1 Demr.

*Botany* [Hon. Prof.  
Johnston, T. H., M.A., D.Sc. Syd.  
Wood, J. G., M.Sc. Lectr.  
Black, J. M. (Syst. B.) Hon. Lectr.  
Colquhoun, T. T., M.Sc. Melb.  
Asst. Lectr. & Demr.

*Chemistry*  
Macbeth, A. K., M.A. St. And.,  
D.Sc. Belf., F.I.C.

Angas Prof.  
Cooke, W. T., D.Sc. Lectr.  
Pennycuik, S. W., D.Sc. (Phys. C.)  
Lectr.

Finlayson, H. H.  
Asst. Lectr. & Demr.  
Winzor, F. L., B.Sc. Evg. Lectr.

*Classics and Comp. Philol. and*  
*Lit.*

FitzHerbert, J. A., M.A. Camb.,  
Hughes Prof.  
Hollidge, D. H., M.A. Lectr.

*Commerce*, v. also *Acctcy.*  
Brebner, C. C., LL.B. (Coml. Law)  
Lectr.

Mayo, H., K.C., LL.B. (Coml. Law)  
Lectr.

Wainwright, J. W., B.A. (Public  
Admin.) Lectr.

Browne, C. Harding, A.U.A.,  
F.C.P.A. (Com. Practice)  
Lectr.

Newman, K. F., A.U.A. (Statistics)  
Lectr.

3 Tutors.

*Dentistry*, v. *infra*  
*Economics*, v. also *Com.*  
..... Prof.  
Garland, M. A., B.Com. Melb.  
Lectr.

2 Tutors.

*Education* [Lectr.  
Schulz, A. J., Ph D. Zur., M A

*Engineering*, v. also Mining  
Chapman, R. W, C M G., M.A.,  
B.C.E. Melb, M.I.E. Aust.  
Prof.  
Robin, R. C., B.E. Lectr. & Demr.  
i Demr. in Metallogr

*Engineering, Elec.*  
Clark, E. V., B.Sc., M.I.C.E. Lectr.

*English Lang. and Literature*  
..... Jury Prof.  
Kirwood, A. E. M., M.A. Q'ld.

Lectr.  
Bald, R. C, Ph D. Camb., M A.,  
LL B Lectr.

*French*  
Crampton, J., B.A. Lond. Lectr.  
Crampton, Mary H. St. Cl., M.A.  
Asst. Lectr.

*Geography* [Lectr.  
Fenner, C. A. E., D.Sc. Melb.

*Geology and Mineralogy*  
Mawson, Sir Douglas, O B.E.,  
D.Sc. Syd., B.E, F.R.S. Prof.  
Madigan, C. T., M.A. Ox., B.Sc.  
Lectr.  
Alderman, A. R., M.Sc. Evg. Lectr.

*German* [Tutor.  
Schulz, A. J., Ph.D. Zur., M.A.

*History, Modern*  
Hancock, W. K., M.A. Melb. Prof.  
Oldham, W., M.A. Lectr.

*Law*  
Campbell, A. L., B.A., B.E. Syd.  
Bonython Prof.  
Reed, G. S., LL.B. (Evidence and  
Procedure) Lectr.  
Benham, E. W., LL.B. (Property  
L.) Lectr.  
Reed, G. S., LL.B. (Private Inter-  
national Law) Lectr.  
Brebner, C. C., LL.B. (Roman L.)  
Lectr.  
Mayo, H., LL.B. (Jurisprudence)  
Lectr.

*Mathematics*  
Wilton, J. R., M.A., Sc.D Camb.,  
D.Sc Elder Prof.  
Sanders, H. W., M.A. Camb Lectr.  
Statton, J. W., B.Sc. Asst. Lectr.

*Medicine*, v. *infra*  
*Mining Engineering*  
Gartrell, H. W., M.A. Col, B.A.,  
B.Sc. Lectr

*Music* [Elder Prof.  
Davies, E. Harold, Mus.Doc.

*Philosophy*  
Stewart, J. McKellar, M.A., D.Phil.  
Edin. Hughes Prof.  
Davey, Constance M., M.A, Ph.D.  
Lond. (Psychol.) Evg. Lectr.  
Barbour, R. R. P., M.A. Ox.  
(Ethics) Evg. Lectr

*Physics* [Elder Prof.  
Grant, Kerr, M.Sc. Melb.  
Burdon, R. S., B.Sc. Lectr  
Fuller, G. R., B.Sc. Asst. Lectr.  
3 Demrs.

*Physiology, General*, v. Bio-  
Chemistry

*Zoology*  
Johnston, T. Harvey, M.A, D.Sc.  
Syd Prof.

### Medicine

(for subjects of first 3 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics* [Instr.  
Brown, Gilbert, M.B., Ch.B. Liv.

*Diseases of Children, Med.*  
Mayo, Helen M., M.D., B.S.  
Clin. Lectr.

*Diseases of Children, Surg.*  
Gilbert, H., M.B., B.S. Melb.,  
F.R.C.S. Clin. Lectr.

*Ear, Nose, and Throat* [Lectr.  
Pulleine, R. H., M.B., Ch.M. Syd.

*Forensic Medicine*  
Rogers, R. S., M.A., M.D., Ch.M.  
Edin. Lectr.

*Gynæcology and Obstetrics*

Wilson, T. G., M.D. Syd., F.R.C.S.  
Edin. Way Lectr.

*Tutors in Obstetrics :*

Beard, J. R. S. G., M.B., B.S.,  
F.R.C.S. Edin.

Matters, R. F., M.D., Ch.M. Syd.,  
F.R.C.S. Edin., D.G.O. Vienna

Swift, B. H., M.B., B.S. Camb.,  
F.R.C.S. Edin.

Fisher, H. M., M.B., B.S., F.R.C.S.  
Ed.

*Infectious Diseases*

Beare, F. H., M.D. Tutor.

*Materia Med and Therap.*

Fry, H. K., B.Sc., M.B., B.S. Lectr.

*Medicine and Therap.*

De Crespigny, C. T. C., M.D., B.S.  
Melb., F.R.C.P. Lectr.

Hone, F. R., B.Sc., M.D. Tutor.

Lendon, G., M.D., M.R.C.P. Tutor.

*Medicine, Clinical**Lectrs. :*

Ray, W., B.Sc., M.B., B.S.

Cowan, D. R. W., M.B., B.S.

Burston, S. R., M.B., B.S.

*Medicine, Psychol.*

Downey, M. H., M.B., B.S. Melb. [Lectr.

*Ophthalmic Surg*

Shorney, H. F., M.D. Melb.,  
F.R.C.S. Gosse Lectr.

*Pathology*

[Marks Prof.

Cleland, J. B., M.D. Syd

Bull, L. B., D.V.Sc. (Exper. Bact.)  
Lectr.

Hamilton, Ian, M.B., B.S.,  
F.R.C.S. Demr.

*Physiol., Human and Pharmacol.*

Hicks, C. Stanton, M.Sc., M.B.,  
Ch.B. N.Z., Ph.D. Camb.,  
F.I.C. Lond. Prof.

Matters, R. F., M.D., Ch.M. Syd.,  
F.R.C.S. Edin., D.G.O. Vienna

Asst. Lectr. and Demr.

*Public Health & Preventive Med.*

Hone, F. S., B.A., M.B., B.S. Lectr.

*Surgical and Regional Anatomy*

Jose, I. B., M.B., M.S., F.R.C.S.  
Lectr.

*Surgery*

Newland, Sir Henry S., M.B., M.S.,  
F.R.C.S. Lectr.

Jones, A. T. B., M.B., B.S.,  
F.R.C.S. Ed. Tutor.

Messent, P. Santo, M.B., M.S.,  
F.C.S.A. Tutor.

*Clinical Lecturers :*

Smeaton, B., M.B., B.S.

Jose, I. B., M.B., M.S., F.R.C.S.

Lindon, C. E. L., M.B., M.S.,  
F.R.C.S.

*Clinical Teachers :*

The Staff of the Adelaide and of  
the Children's Hospls.

*Dentistry**Lectrs. :*

Edwards, H. T. J., D.D.Sc. (Pros-  
thetic D., Crown and Bridge  
Wk., Ethics, Econ and D.  
Jurispr).

Reid, F. W., B.Sc. (D. Metal).

Eustace, J. L., B.D.S. (D. Mat.  
Med and Therap).

Moore, A. P. R., D.D.Sc. (D. Surg.  
and Path.).

Messent, P. S., M.B., M.S., F.C.S.A.  
(Surg.).

Southwood, A. R., M.D., M.S.  
(Med.).

Swan, F. M., L.D.S., M.A.C.D.  
Melb. (Operative Dentistry).

Begg, P. R., B.D.Sc. Melb. (Ortho-  
dontics) and Demr.

Brown, Gilbert, M.B., Ch.B. Liv.  
(Anæsthetics).

Campbell, T. D., D.D.Sc. (D.  
Anatomy).

Mead, C. S., B.A., M.B., B.S.  
(Anat).

Maddern, C. B., D.D.Sc. (Prophy-  
laxis and Oral Hy)

*Demrs. :*

Lawrence, G. O., B.D.Sc. Melb.  
(Operative Technique).

Brougham, L. A. M (Prosthetic Technique).  
 Brazil-Smith, R. J., B D S (Crown and Bridge Wk) also Instr. in Prosthetic D

#### Waite Agricultural Research Institute

Richardson, A. E. V., D.Sc. Melb., M.A. Waite Prof. & Director.  
 Prescott, J. A., M.Sc. Manc. (Agr. Chem.) Waite Prof.

#### Entomologists :

Davidson, J., D.Sc. Liv.  
 Swan, D. C., B Sc. W. Aus. Asst.

#### Plant Pathologists :

Samuel, G., M.Sc.  
 Garrett, S. D., B.A. Camb. Asst.  
 Petrie, A. H. K., M.Sc., Ph.D. Plant Physiologist.

#### Agronomists :

Trumble, H. C., M.Ag.Sc. Melb.  
 Gurney, H. C., B Sc.

#### Chemists :

Piper, C. S., M.Sc.  
 Best, R. J., M.Sc.  
 Scott, A. E., M.Sc. Asst.  
 Gallus, H. P. C., M.Sc. Asst.  
 Phipps, I. F., B.Ag.Sc., M.Sc., Ph.D. Corn. Plant Geneticist.  
 Davies, J. G., B.Sc., Ph.D. Agrostologist.  
 Codrington, A. H. Hon. WoolInstr.

Pike, K. A. Field Officer  
 1 Field Asst., 1 Tech Asst., 6 Lab Attendants.

Officers of the Council for Sci and Indust. Research :

Taylor, J. K., B A., M.Sc. Soil Survey Officer

Poole, H. G., M Sc. Soil Chemist  
 Hosking, J. S., B Sc. Asst. Chemist  
 Peirce, A. W., B Sc.

Animal Nutrition Officer  
 Fraser, K. M., B Ag.Sc. Asst. Agronomist

Bald, J. G., B Ag.Sc. Asst. Plant Pathologist  
 Marshall, T. J., B Sc. Asst. Soil Surveyor

Hooper, P. D. Field Officer  
 1 Analyst, 2 Research Students.

#### Animal Products Research Foundation

Martin, Sir Chas. J., C M.G., M.B. D.Sc. Lond., D.Sc. Melb. Shef, Dub., LL.D. Edin D.C.L. Durh., F R.C.P. F.R.S. Director  
 Dawbarn, Miss M. C., M.Sc. (Thyroid Res).

#### Tutorial Classes

Biaggini, E. G., B.A, Tutor in Charge, assisted by 16 tutor and 7 study circle leaders.

### ASSOCIATED OR AFFILIATED INSTITUTIONS

RESIDENTIAL : ST. MARK'S COLLEGE, under management of Church of England, but open to men of all denominations. Opened for students in March 1925. Master : A. Grenfell Price, D.Litt., M.A. Ox., Dip. in Ed.

ST. ANDREW'S COLLEGE, in connexion with the Presbyterian Church in South Australia, but prescribing no religious test, was opened for students in March 1928. Master : R. R. P. Barbour, M.A. Ox.

S. AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES. President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and exams. in Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board  
 ROSEWORTHY AGRICULTURAL COLLEGE. Affiliated for parts of the B.Ag.Sc. course for Agric. students.

TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL. Adelaide

General Hospital, 480 beds; Queen's Home (Maternity), 160 beds; Adelaide Children's Hospital, 120 beds; Bedford Park Sanatorium; and "Marceba" Babies' Hospital.

## GENERAL INFORMATION

The University was established by Act of the Provincial Legislature in 1874 with endowments of £20,000 each from Sir W. W. Hughes and Sir Thomas Elder and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000), as well as a site of 5 acres in the city. The original site was increased to 14 acres in 1927, and in 1929 an addnl. 13 acres adjoining were vested in the Univ. The Govt. also provides an annual subsidy of 5 per cent on endowments; the subsidy is limited to £20,000. In 1911 the State Parliament sanctioned an addnl. annual grant, and took power to appoint five addnl. members of the Council, which, until then, consisted of 20 elected by the Senate. The grants have been increased by the State Parliament from time to time and now amount to £41,500, excluding a grant of £9500 to the Waite Agric. Research Inst.

**ENDOWMENTS.** In addition to the private endowments mentioned above the Univ. has received the following benefactions: Sir T. Elder, £75,000 in 1897; the Hon. J. H. Angas, £10,000; Mr. R. Barr Smith and the members of his family, £20,000 for the Library, and Mr. T. E. Barr Smith, £34,000 for a Library building. Mr. Peter Waite bequeathed extensive estates, including a mansion and approximately £55,000; Mrs. Jane Marks, £30,000; Mrs. A. M. Simpson and Miss A. F. Keith Sheridan, £20,000. The Hon. Sir Langdon Bonython has given £40,000 for a Great Hall, and £20,000 for the Chair of Law. The family of the late John Darling has provided £25,000 for buildings; Mrs. G. A. Jury, £12,000 for a Chair of English Literature; Sir Josiah Symon, £10,000 for the Lady Symon building, the women's portion of the University Union; Sir John Melrose, £10,000 for the Chemical Laboratory at the Waite Institute. The total value of the endowments is £648,714 and the income in 1931 was £108,565.

**LIBRARY.** Over 87,000 volumes. **LABORATORIES,** Biol., Bio-Chem., Botany, Chem., Geol., Histol., Pathol., Physics, Physiol., Pharmacol., and Zool. The Univ. includes the *Elder Conservatorium of Music*, which has a staff of 17; it also assists in the management of a Public Library, Museum, and Art Gallery.

**SPECIAL RESEARCH DEPARTMENTS.** (1) The Waite Agricultural Research Institute, established at Glen Osmond for the purpose of furthering the cause of education and research in Agriculture and allied subjects (see App. XXIV. B. II.). (2) The Animal Nutrition Institute within the University Grounds (see App. XXIV. B. II.). (3) Field laboratory at Koonamore for investigation of plant regeneration in arid areas. (4) The Sheridan Medical Research Foundation for the support of medical research. In 1922 Mrs. A. M. Simpson and Miss A. F. Keith Sheridan bequeathed property (value, £20,000) for the establishment of this foundation. (5) The Animal Products Research Foundation, which conducts investigations in regard to the problems of animal nutrition, see Staff List *supra*. (6) The Board of Anthropological Research engaged in Anthropological investigations concerning the aborigines of South Australia. (7) The Anti-Cancer Campaign Committee directs research into the cause and cure of cancer.

**COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS.** Collection of Australian endoparasites. Prof. J. B. Cleland's collection of the higher Australian fungi (Basidiomycetes), by far the largest of its kind, is available for study by

mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material.

**FACULTIES.** Arts, Science, Law, Medicine, Dentistry, Music, Agric. Science, Applied Science (including Staff of S. Aus. School of Mines and Industries).

**DEGREES.** Obtainable after 3 yrs.' course, B.A., B.Sc., B.Ec., Mus. Bac.; 4 yrs.', LL.B., B.E., B.Ag.Sc.; 5 yrs.', B.D.S.; 6 yrs.', M.B., B.S.

**HIGHER DEGREES.** Open to bachelors of 2 yrs.' standing, M.A., M.Sc., M.Ag.Sc., M.E., LL.M.; 3 yrs.', M.D., M.S., D.D.Sc., Mus.Doc.; 4 yrs.', D.Sc., LL.D., D.Litt.

**DIPLOMAS.** Applied Science (Mining, Metall., or Engin.—Civ., Elec., Mech., or Archt.), 4 yrs.' course; Commerce and Public Administration evening courses, Education (post-graduate); Music, 3 yrs'.

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articled clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts **PUBLIC EXAMNS.** of various grades, irrespective of those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours; in Commercial Education—Intermediate and Leaving; and Music.

**SCHOLARSHIPS**, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs.; several smaller.

**RESIDENCE.** St. Mark's Residential College was incorporated in the Univ. in 1925, and St. Andrew's College in 1927.

**ADULT EDUCATION.** The Tutorial Class Dept. consists of the Tutor-in-Charge assisted by 18 tutors, and 3 study circle leaders. Tutorial classes in Engl. Lit. (3), Engl. Lang. (3), and Logic. Lecture classes in Engl. Lit., Econ. (2), Econ. Geog., Sociol. (5), Australian Hist., Mod. Hist., Philos., Psychol., Physics, Geol. (2), Animal Life and Evolution, Music, and Public Speaking (2), and several classes in country centres. The number of enrolments for the city classes is 1215.

**PUBLICATIONS.** *Calendar* (Feb.), 3s. 6d. *Australian Journal of Experimental Biology and Medical Science*, quarterly, £1: 1s. p.a. *Fisher Lecture*, 1932.

**MEDICAL SCIENCES CLUB.** Hon. Sec.—Dr. E. McLachlan, The Laboratory, Adelaide Hospital.

**UNIVERSITY UNION.** Secretary—P. C. Greenland, University.

## THE YEARS 1931, 1932

**NEW BUILDINGS.** Barr Smith Library Building completed (cost £34,000). Chemical Lab. in course of erection.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES AND OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** Dr. L. D. Coffman, President of the Univ. of Minnesota.

**RETIREMENT AND DEATH.** Prof. Melville (Econ.), resigned. Dr. Malcolm Scott (Regional and Surg. Anat. and Clin. Surg.), died Nov. 1931.

**STUDENTS.** Total: full-time undergraduates, 942; graduates, 136; others part-time, 821; Tutorial Class students, 1215.

**DEGREES.** M.A., 14; B.A., 38; M.Sc., 3; LL.B., 14; M.B., 8; M.D., 1; Mus.Bac., 2; D.Sc., 3; B.Sc., 15; M.E., 1; B.E., 13; Dip. in Applied Sci., 13; Dip. in Com., 14; Dip. in Music, 4; Final Certif. in Law, 5; Dip. in Educ., 1; Diploma in Pub. Admin., 1.



# UNIVERSITY OF MELBOURNE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Sir J. H. MACFARLAND, M.A., LL.D.

VICE-CHANCELLOR—Lt.-Col. Sir JAMES WILLIAM BARRETT, K.B.E.,  
C.B., C.M.G., M.D., M.S., F.R.C.S., R.A.M.C.

REGISTRAR—J. P. BAINBRIDGE, F.I.C.A., F.C.I.S., J.P.

LIBRARIAN—LEIGH SCOTT, M.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*, v. Com.

*Agriculture*, v. *infra*

*Anatomy*

Jones, F. Wood, D.Sc., M.B., B.S.  
Lond., F.R.S. Prof.

Jones, W. E. A. Hughes, M.D.,  
B.S. Lectr.

Turner, J. B., M.B., B.S. Lectr.

*Anat., Radiological*

Flecker, H., M.B., Ch.M. Syd.  
Hon. Demr.

*Anat., Regional and Applied*

Searby, C. H. C., M.B., M.S.,  
F.R.C.S. Lectr.

*Architecture*

Gawler, J. S., F.R.V.I.A. Lectr.  
Sutherland, G. J., Dip.Arch.  
Lectr.

Irwin, L., A.R.I.B.A.

Dir. of Atelier.  
Good, Eileen M. F., Dip.Arch.  
Sr. Demr.

Ralton, A. J., Dip.Arch. Des  
Demr.

Alsop, R. H., F.R.I.B.A.,  
F.R.V.I.A. Hon. Lectr.

Ellis, R. O. Instr.

Dumbrell, C. B. Instr.

Lyons, A. C., Dip.Arch.Des. Instr.

*Bacteriology*, v. Med.

*Bio-Chemistry*, v. Physiology

*Botany & Plant Physiology*

Ewart, A. J., D.Sc. Lond., Ox.,  
and Melb., Ph.D. Leip.,  
F.L.S., F.R.S. Prof.

McLennan, Ethel I., D.Sc. (Bot.  
and Plant Pathol.)

Assoc. Prof.

Patton, R. T., D.Sc., M.F. Harv.,  
D.I.C. Lond. (Bot. and Agric.  
Bot.) Sr. Lectr.

Cookson, Isabel C., B.Sc. Lectr.

Thomas, L. A., B.Sc. Sr. Demr.

*Chemistry*, v. also Bio-Chem.

Hartung, E. J., D.Sc. Prof.

Green, W. H., D.Sc. Sr. Lectr.

Davies, W., D.Sc. Manc., D.Ph.  
Ox. (Organic C.) Sr. Lectr.

Cavanagh, B., M.A. Ox., D.Sc.  
Lond (Gen. Phys. and Inor-  
ganic C.) Sr. Lectr.

Anderson, V. G. (Principles of  
Applied C.) Lectr.

Ampt, G. A., B.Sc. Lectr.

Sugden, Ruth, M.Sc. Sr. Demr.

Welch, K. N., M.Sc., Ph.D. Durh.  
Sr. Demr.

Scott, Margaret E., B.Sc. Sr. Demr.

*Classical Philology*

Scutt, C. A., M.A. Camb. Prof.

Kerry, W., M.A. Camb. and Melb.  
Sr. Lectr.

Cornwall, E. W., B.A. Ox.  
Evening Lectr.

Woinarski, S. H. Z., M.A., LL.B.  
Tutor.

*Commerce*

- Copland, D.B., C.M.G., M.A., D.Sc.  
N.Z. Prof.  
Wood, G. L., M.A. Adel., Litt.D.  
Melb. (Econ. and Econ. Geog.)  
Assoc. Prof.  
Mauldon, F. R. E., B.A., M.Ec.  
Syd., Litt.D. Melb.  
(Econ.) Sr. Lectr.

## Lecturers :

- Burton, H., B.A. Ox. and Q'Ind.  
(Econ. Hist.).  
Foenander, O. de R., LL.M.  
(Econ.).  
Fitzgerald, A. A., B.Com., F.I.C.A.  
(Acctcy.).  
Kelly, E. C. W., LL.M. (Law).  
Cunningham, K. S., M.A., Ph.D.  
Columb., Dip.Ed (Marketing).  
Whitlam, A. G., B.A., B.Com.  
(Marketing).  
Fitzgerald, G. E., B.A., B.Com.  
(Acctcy.) Asst. Lectr.  
Goldberg, L., B.Com.  
(Accountancy) Tutor.  
Norris, J. G., LL.M. Tutor (Law).

*Dentistry*, v. Affiliated Colls.*Dutch*

- [Instr.  
Lodewyckx, A., M.A., Litt.D.

*Economics*, v. also Com.

- Giblin, L. F., D.S.O., M.C., M.A.  
Camb. Ritchie Prof.

*Education*

- Wrigley, L. J., M.A. Prof.  
Sharman, M. S., M.A., M.Sc.  
Sr. Lectr.  
Browne, G. S., M.A. Ox., Dip.Ed.  
Ox., Lond. Sr. Lectr.

## Lecturers :

- Frederick, W. H., M.A., Dip.Ed.  
Marshall, Isabella D., M.A. Ox.  
and Dub., Dip.Ed. Camb.  
MacDonald, Ethel M., B.A.  
Greig, Jane Stocks, M.B., B.S.,  
D.P.H. (Hygiene).  
Hoy, Alice, M.A., LL.B., Dip.Ed.  
Wilson, H. W., O.B.E., M.C., M.Sc.  
Bachelard, P. M., Ph.D. Köln.  
Keartland, Bertha M. H., M.Sc.

- Jamieson, N. L., B.A., B.Com.,  
Dip.Ed.  
Noall, A.

*Engineering*, v. also Agric.

- Kernot, W. N., M. Mech. E.,  
M.I.C.E. Prof.  
Brown, E. B., D.Sc., A.C.G.I.  
(Elec. E) Assoc. Prof.  
Sexton, C. W. N., M.C.E.,  
M.Inst.C.E.

(Civ. E.) Sr. Lectr.

- Darwin, E. R. H., B.Sc. Adel., L.S.  
(Surveying) Sr. Lectr.  
Rennie, E. J. C., M.E.

(Mech. Eng. &amp; Aerodyn)

Sr. Lectr.

- Lang, E., M.E. Adel., F.S.A.S.M.,  
Dip.C.E. (Civ. E) Lectr.  
Mirfield, T. N., B.E.E.

(Mech. Eng.) Lectr.

- Sublet, F. G. A., M.E.E.,  
B.Mech.E.

(Strength and Elasticity  
of Matls.) Lectr.

- Faul, A. H.  
(Graphics and Eng. Des.) Lectr.

## Pt.-time Lecturers :

- Clark, G. C. L., M.C., M.M.E.,  
B.Sc. Tasm. (Mining).  
Callaway, A. E. (Roads).  
Summons, W. E., M.D., B.S.,  
D.P.H. (Ambulance).

- Spcedie, M. G., B.C.E.  
(Civ. Eng.) Sr. Demr.

- Willoughby, E. O., B.E.E.  
(Elec. E.) Sr. Demr.

- Galbraith, L., B.C.E.  
(Strength and Elasticity  
of Matls.) Sr. Demr.

2 Demrs.

*English Lang. and Lit.*

- Cowling, G. H., M.A. Leeds Prof.  
Derham, Enid, M.A. Sr. Lectr.  
Price, W. T., M.A. Sr. Lectr.

## Tutors :

- Maxwell, Beatrice M., B.A.  
Campbell, R. M., B.A.  
Jennings, Vera C., M.A.

*French*

[Assoc. Prof.]

- Chisholm, A. R., B.A. Syd.  
 Cornell, J. G., B.A., B. ès L. Paris  
 Lectr.  
 Karagheusian, V. N. T., Lectr.  
 Callil, F. A. L., M.A., Tutor.  
 Coverlid, Dorothea R., M.A.  
 Tutor (Science Students).

*Geology and Mineralogy* [Prof.]

- Skeats, E. W., D.Sc. Lond. and  
 Melb., A.R.C.Sc. Lond., F.G.S.  
 Summers, H. St. J., D.Sc.

Assoc. Prof.

- Singleton, F. A., M.Sc. (Agric. G.)  
 Sr. Lectr.  
 Hills, E. S., M.Sc., Ph.D. Lond.  
 Lectr.

- Hauser, H. B., M.Sc. Sr. Demr.  
 i Demr.

*German*

[Assoc. Prof.]

- Lodewyckx, A., M.A., Litt.D.  
 Coverlid, Dorothea R., M.A.  
 Tutor (Science Students).

*Histology*

- Hurley, L. E., M.D., M.S. Lectr.

*History*

- Scott, E. Prof.  
 Webb, Jessie S W., M.A. Sr. Lectr.  
 Foenander, O. de R., LL.M.

Evening Lectr.

- Sweetman, E., M.A., Dip.Ed.,  
 Litt.D. Evening Lectr.

- Phillips, P. D., M.A., LL.B. (Mod.  
 Polit. Instns.) Lectr.

- Harper, N. D., B.A., Dip.Ed.  
 Tutor.

- Mulvany, J. F., M.A., LL.B.  
 Tutor.

*Italian*

- Schiassi, O., LL.D. (Bologna)

*Japanese*

- Inagaki, M. Instr.

*Law*

- Bailey, K. H., M.A., B.C.L. Ox.  
 (Public Law) Prof.  
 Paton, G. W., B.A., B.C.L. Ox.  
 (Jurispr.) Prof.

## Lecturers :

- Duffy, C. Gavan (Contracts, etc.).  
 Adam, A. D. G., B.A., LL.B.  
 (Land, etc.).

- Richardson, J. A., LL.B. Lond.  
 (Procedure)

- Dean, A., LL.M. (Equity).

- Phillips, P. D., M.A., LL.B.  
 (Private Internat. L.).

- Sholl, R. R., M.A.

- (L. affecting Journalism).

- Coghill, E. H., LL.M. Tutor.

- Phillips, P. D., M.A., LL.B. Tutor.

*Mathematics, Pure and Mixed*

- Cherry, T. M., B.A. Melb., Ph.D.  
 Camb. Prof.

- Gundersen, G., B.Sc. Sr. Lectr.

- Belz, M. H., M.Sc. Camb. Sr. Lectr.

- Urquhart, M. L., B.Sc. Tas. Lectr.

- Lavater, Eleanor, B.A. W.A.,  
 B.Sc. Camb. Tutor.

- Barnard, Mildred M., B.A., B.Sc.

- Tutor.

*Medicine, v. infra**Metallurgy*

[Prof.]

- Greenwood, J. Neill, D.Sc. Manc.

- Thompson, P. F. Sr. Lectr.

- O'Malley, G. B., B.Met.E. Lectr.

*Mining, v. Engineering**Music*

- Heinze, B. T., F.R.C.M., Degré  
 Sup., Schola Cantorum, Paris

Ormond Prof.

- Biggins, L., Mus.Bac. Asst.

*Natural Philosophy*

- Laby, T. H., M.A., Sc.D. Camb.,  
 F.R.S., F.Inst.P.

Ch. of Mfrs. Prof.

- Hercus, E. O., D.Sc., F.I.P.

Assoc. Prof.

## Sr. Lecturers :

- Rogers, J. S., B.A., Dip.Ed., M.Sc.,  
 F.I.P.

- Martin, L. H., Ph.D. Camb.

- Bingham, R. T. W., M.Sc.

- Lectr. and Demr.

- Eddy, C. E., D.Sc., Dip.Ed.,

- F.Inst.P., Research Physicist.

Allen, Natalie C. B., B.Sc. N.Z.,  
M.Sc. Sr. Demr.

Nelson, Edith A., M.A., M.Sc.  
Sr. Demr.

Walpole, J., B.Sc. Tas. Demr.

*Philos., Mental & Moral*

Gibson, W. R. B., M.A. Ox. and  
Melb., D.Sc. Ox. Prof.

Merrylees, W. A., B.Litt. Ox.,  
M.A. Sr. Lectr.

Ball, W. M., B.A.  
(Polit. Phil.) Lectr.

Warren, Olga M., M.A. Tutor.

Atkins, G. A., B.A. Tutor.

*Physics, v. Nat. Phil.*

*Physiology*

Osborne, W. A., M.B., B.Ch. Belf.,  
D.Sc. Tub. Prof.

Young, W. J., M.Sc. Manc., D.Sc.  
Lond. (Bio-Chem.)

Assoc. Prof.

Maxwell, L. A. I., M.Sc., B.Agr.Sc.,  
M.D., B.S. Sr. Lectr.

Barrett, Sir J. W., K.B.E., C.B.,  
C.M.G., M.D., M.S., F.R.C.S.

Eng. (Ph. of Special Senses)  
Sr. Lectr. (Hon.).

3 Demrs.

*Pub. Health, v. Med.*

*Russian*

Goode, J. S., M.E. Instr.

*Scandinavian Languages*

Lodewyckx, Mrs. A. Instr.

*Spanish*

Clot-Fernandez, R. Instr.

*Veterinary Science, v. infra*

*Zoology*

Agar, W. E., M.A. Camb., D.Sc.  
Glas., F.R.S. Prof.

Tiegs, O. W., D.Sc. Adel.  
Assoc. Prof.

Buchanan, Gwynneth V., D.Sc.  
Sr. Lectr.

Sweet, Georgina, D.Sc.

Hon. Lectr.

Drummond, F. H., B.Sc. W.A.  
Demr.

*Agriculture*

Wadham, S. M., M.A., Agr. Dip.  
Camb.

Prof. and Dir. of School.

*Lecturers:*

Cameron, S. S., D.V.Sc.,  
M.R.C.V.S. (Animal Hus-

bandry and Vet. Hyg.).

Kerr, J. M. (Dairying).

Wilson, H. C. (Part I.).

French, C. H. (Ag. Entomol.).

Adam, D. B., B.Agr.Sc. (Plant  
Pathol.).

Hammond, A. A. (Principles of  
Hortic.)

de Castella, F. (Viticulture).

McDonald, G. W. (Wool Classing).

Kendall, E. A., B.V.Sc. (Vet.  
Dietetics).

Reid, F. M. (Hortic. Sc.).

Straughan, T. (Dairy Technol.).

Raff, Janet W., M.Sc. (Entomol.).

Blackwood, R. R., B.E.E., B.C.E.  
(Agric. Eng.).

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

Maxwell, L. A. I., M.S., B.Agr.Sc.,  
M.D., B.S. Lectr.

*Bacteriology*

Woodruff, H. A., M.R.C.S.,  
L.R.C.P. Dir.

Gregory, T. S., B.V.Sc. Sr. Lectr.

Rennie, Hilda M., M.B., B.S. Lectr.

Gundersen, Sara E., B.Sc., M.B.,  
B.S. Sr. Demr.

*Clinical M. and Clin. Surg.*

Staffs of the Melb., Alfred, and St.  
Vincent's Hospls.

*Ethics, Med.*

[Lectr.  
Anderson, A. V. M., M.D., B.S.]

*Forensic M.*

Mollison, C. H., M.B., B.S.,  
M.R.C.S. Eng. Lectr.

*Mat. Med. and Pharmacy*

Stanton, B. L., M.B., B.S. Lectr.

<i>M. Theory and Practice</i>	<i>Radiology</i> [Lectr.]
Latham, L. S., M.A., M.D., B.S.	Cross, K. S., M.Sc., M.D., B.S.
Stewart Lectr.	<i>Surgery</i> [Stewart Lectr.]
Hiller, K., M.D., B.S. Lectr.	Kilvington, B., M.D., M.S.
Sewell, S. V., M.D., B.S. Lectr.	Hurley, T. E. V., C.M.G., M.D., M.S., F.R.C.S. Lectr.
Silberberg, M. D., M.D., B.S. Lectr.	Zwar, B. T., M.D., M.S. Lectr.
Fairley, K. D., M.D., B.S. Lectr.	Devine, H. B., M.B., M.S. Lectr.
<i>Obst. and Gynæc.</i>	Searby, C. H. C., B.Sc., M.B., M.S., F.R.C.S. Lectr.
Allan, R. M., M.C., M.D., Ch.B. Edin., F.R.C.S.E., F.C.S.A., L.M. Dublin Prof.	Upjohn, W. G. D., M.D., M.S. Lectr.
Campbell, Kate I., M.D., B.S. (Infant Welfare) Lectr.	<i>Therapeutics</i>
3 Demrs.	Cowen, S. O., M.D., B.S. Lectr.
<i>Pathology</i>	<i>Venereal Diseases</i>
MacCallum, P., M.C., M.A., M.Sc. N.Z., M.B., Ch.B., D.P.H. Edin. Prof.	Mortensen, H. N., M.B., M.S. Lectr.
Apperly, F. L., M.A., M.D., B.Ch. Ox., M.R.C.S., L.R.C.P., D.Sc. Sr. Lectr.	<i>Veterinary Science</i>
King, E. S. J., M.D., B.S. Stewart Lectr.	<i>V. Parasitology</i>
Davis, M. C., M.B., B.S. Sr. Demr.	Pullar, E. M., M.V.Sc. Lectr.
<i>Pub Health</i>	<i>V. Pathology, etc.</i>
Dale, J., O.B.E., M.D., Ch.B., M.R.C.S., L.R.C.P., B.Sc. Lond. (Pub. Health) Lectr.	Albiston, H. E., B.V.Sc. Lectr. and Actg. Dir.
	<i>University Extension</i>
	Gunn, Prof. J. Alexander, M.A., Ph.D. Liv., B.Sc. Lond. Director.
	23 Tutors.

## AFFILIATED COLLEGES

I.—RESIDENTIAL—Controlled by representatives of the Churches but open to members of all religious denominations.

TRINITY COLLEGE (Church of England). Warden, J. C. V. Behan, M.A., LL.D. Melb., M.A., B.C.L. Ox. Sub-Warden, G. Taylor, M.A. West Aust., LL.M. 13 other Lectrs.

ORMOND COLLEGE (Presbyterian). Master, D. K. Picken, M.A. Camb., Glas. and Melb.; Vice-Master, H. W. Allen, M.A. 14 other Lectrs.

QUEEN'S COLLEGE (Methodist). Master, Rev. F. W. Kernick, M.A. Ox.; Vice-Master, J. F. Foster, B.A., LL.M. 16 other Lectrs.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A.; Dean, Rev. H. B. Loughnan, S.J., B.A., F.G.S., Dip.Ed. 14 Tutors (2 Resident).

II. AUSTRALIAN COLLEGE OF DENTISTRY. Principal, Prof. F. C. Wilkinson, M.D., Ch.B., B.D.S. Liv., D.D.Sc. Other Lectrs. (excluding those on Univ. staff): C. E. Allen, D.D.Sc., L.D.S.; E. B. Nicholls, D.D.Sc., L.D.S.; H. C. Trumble, M.B., B.S., F.R.C.S.; J. K. Clark, D.D.Sc., L.D.S.; W. J. Tuckfield, M.A.C.D., F.A.C.D., F.A.C.D., D.Sc. Chic.; C. H. Down, B.D.Sc., L.D.S.; F. A. Aird, D.D.Sc., L.D.S.; K. T. Adamson, D.D.Sc., L.D.S.; J. S. R. Heath, L.D.S., R.C.S. Eng.; J. M. Lewis, M.A.C.D., D.D.Sc.

## GENERAL INFORMATION

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 31 members—10 elected by graduates; representatives of the teaching staff (5), of affiliated colleges (2), under-graduates (2); 8 appointed by the Govt (3 being members of Parliament, the others representing business interests and technical schools); 2 *ex officio*; and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

**LIBRARY**, 80,000 vols. **MUSEUMS AND LABS.**, Anat., Biol., Engin., Geol., Path. (18,000 specimens), Vet. **LABORATORIES**, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall and Mining (with 3 head stamp battery), Physics, Physiol. **VET. RESEARCH INSTITUTE**. **WERRIBEE RESEARCH FARM**. **HALL RESEARCH INSTITUTE** in connexion with Melbourne Hospl.

**FACULTIES**. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Metall., Mining), Archit., Agric., Educn., Commerce, Music.

**DEGREE COURSES**: 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., B.Com.; 4 yrs.—B.Sc. (Honrs.), LL.B., Mus.Bac., B.D.Sc., Lic.V.Sc., B.V.Sc., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5 yrs.—B.Arch.; 6 yrs.—M.B., B.S.

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

**HIGHER DEGREES**. Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc., 2 yrs.—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc.; 3 yrs.—Mus.D., D.V.Sc.; 4 yrs.—D.Sc., LL.D.; 5 yrs.—D.Eng.; 7 yrs.—D.Litt. Courses of **MEDICAL POST-GRADUATION STUDY** arranged by special Committee on which Univ. is represented.

**DIPLOMAS** (which except Dip.Ed. can be taken without Matricn.); Music, 3 yrs.; Educn., 3 yrs.' course, which may include 2 yrs. of the course for any degree in the Univ.; Analyt. Chem., 9 mos. following Final Hons. in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 12 mos.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 3 mos.; Dip. Ophth., Dip. L. and O., Dip. G. and O., open to Med. graduates of 2 yrs.' standing, 15 mos. each; Agric., 4 yrs.; Commerce, 3 yrs.; Arch. Des., 3 yrs.

**SCHOLARSHIPS, ETC.** Aggregate annual value about £14,000. Among the more important are Research Fellowships of £500 each, Research Scholarships up to £200, and combined Research and Teaching foundations.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

A *Students' Loan Fund* has assets exceeding £45,000.

**RESIDENCE**. The Affiliated Colls. (*v. supra*) accommodate over 500 resident students.

**ADULT EDUCATION.** Tutorial classes are conducted in the city and suburbs and 4 country centres.

**PUBLIC EXAMINATIONS.** School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools.

**PUBLICATIONS.** *Calendar* (Dec.), 5s. net, includes list of publicns. by members of staff; *Annual Examn. Papers*, in sets, 6d. each; *Students' Handbook*, 1s. 6d.; *Handbook of Pub. Examns.*, 3s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music*. Students' journals: *Melb. Univ. Magazine*; *Farrago* (weekly), *Speculum* (Medical), *The Margin* (Commerce).

The UNIVERSITY PRESS, founded in 1922, has published a number of important books by members of the Univ. and others embodying results of research in subjects peculiar to Australia. The Oxford University Press acts as distributing agent. It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

## THE YEARS 1931, 1932

**BENEFACTIONS.** Sir John and Lady Higgins, £2000, Interests of Primary Production; Howard W. Berry Bequest, £1000, Cancer Research; Carnegie Corporation, £819, Adult Education; Alfred McFarlane Bequest, £745, Cancer Research; Sir Samuel Gillott Estate, £400; "A. N. T.," £250, General Research.

**NEW BUILDINGS.** The original main building of the Univ., erected 1853-1855, was completed in 1931 by adding to the ends of two wings and completing the cloisters.

**CHANGES IN REGULATIONS.** The Regulation for the Degrees of M.B. and B.S. has been amended, extending the course to a full 6 yrs.

**VISITS OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS.** Mr. Charles Herbert Fagge, Senior Vice-President of the Royal Coll. of Surgeons, England, and of Lotus D. Coffman, Ph.D., LL.D., President of the Univ. of Minnesota, Visiting Carnegie Professor. Profs. Gunn and Ewart attended the Universities Congress, and Profs. Ewart, Hartung, and Skeats the British Association's Meeting. Prof. Greenwood is visiting centres of learning and of metallurgical work in America and Europe. Mr. M. H. Belz is spending a year of study in England. Prof. Wood Jones is proceeding to Peiping to take charge for 6 months of the Union Medical Coll. there. Dr. F. L. Apperly, Snr. Lectr. in Pathol., has received a temporary appt. as Prof. of Pathol. in the Medical School, Richmond, Virginia.

**RETIREMENTS AND DEATH.** Prof. Henry Payne (Engin.), retired. Mr. N. J. G. O'Bryan (Private Internat. Law), resigned. Mr. R. H. Gregory (Law of Property in Land and Conveyancing), died.

**HONORARY DEGREES.** *M.D.*—Mr. Charles Herbert Fagge. *M.A.*—Prof. Samuel MacMahon Wadham and Prof. George Herbert Cowling.

**STUDENTS (1931).** Total, 3101; not attending lectures but receiving tuition by correspondence, 218.

**UNIV. EXTENSION.** Tutorial class students, 1696; extension lectures, 51; wireless "lecturettes," 44.

**DEGREES.** B.A., 109; M.A., 31; M.B., B.S., 65; M.D., 14; M.S., 4; LL.B., 28; LL.M., 1; Litt.D., 1; B.C.E., 21; B.M.E., 1; B.Mech.E., 2; B.Met.E., 8; B.E.E., 14; M.C.E., 4; M.Met.E., 1; B.Sc., 32; M.Sc., 11; D.Sc., 2; Mus.Bac., 8; B.D.Sc., 14; M.Vet.Sc., 1; D.Vet.Sc., 1; B.Agr.Sc., 9.

# UNIVERSITY OF QUEENSLAND, BRISBANE

CHANCELLOR—The Hon. Chief Justice Sir J. W. BLAIR.

VICE-CHANCELLOR—W. N. ROBERTSON, C.M.G., C.B.E., M.B., Ch M.,  
F.A.C.S.

REGISTRAR—J. F. McCaffrey.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture*

Murray, J. K., B.A., B.Sc. (Agr.)  
Syd. Prof.  
Bryan, W. W., B.Sc. (Agr.) (Genet.  
and Plant Breeding) Lectr.  
4 Special Lectrs.

### *Biology*

Goddard, E. J., B.A., D.Sc. Syd.  
McCaughy Prof.  
Cayzer, A., B.Sc. Syd. (Zool.)  
Lectr.  
Herbert, D. A., D.Sc. Melb. (Bot.)  
Lectr.  
Perkins, F. A., B.Sc. (Agr.) Syd.  
(Econ. Ent.) Lectr.

### *Chemistry*

Bagster, L. S., D.Sc. Melb. (Ap-  
plied C.) Prof.  
Hines, H. J. G., B.Sc. Lond.  
(Agric.) Lectr.  
Jones, T. G. H., D.Sc. Syd. Lectr.  
O'Connor, E. A., M.Sc. Melb.  
Sr. Demr. & Asst. Lectr.

### *Classics*

Michie, J. L., M.A. Camb. Prof.  
Castlehow, S., M.A. Ox. Lectr.

### *Engineering*

Hawken, R. W. H., B.A., M.E.  
Syd., M.I.C.E., M.I.E. (Aust.)  
Prof.  
Boyd, A., D.Sc. Lond., B.E.,  
M.I.E.E.  
(Mech. & El. E.) Lectr.

Ross, C. N., M.Sc. Tas., B.M.E.  
Melb. (Civ. E.) Lectr.

Munro, A. R.  
Sr. Demr. & Asst. Lectr.  
Stoney, A. J. M'C., B.E.E. Melb.  
Sr. Demr. & Asst. Lectr.  
Jones, F. L. (Build. Con. and  
Arch.) Part-time Lectr.  
7 Special Lectrs.

### *English Language and Lit.*

Stable, J. J., M.A. Camb.  
Darnell Prof.

### *Geology and Mineralogy*

Richards, H. C., D.Sc. Melb.  
Prof.  
Bryan, W. H., D.Sc. Lectr.  
Whitehouse, F. W., Ph.D. Camb.,  
M.Sc. Lectr.

### *History and Economic Science*

Alcock, H., M.A. Ox.  
McCaughy Prof.  
Melbourne, A. C. V., M.A. Adel.,  
Ph.D. Lond.  
(Econ. and Colonial H.) Lectr.  
Gifford, J. L. K., M.A. Glas.  
(on leave) Lectr.  
Hickey, M. F., B.A. Acting Lectr.  
Molesworth, B. H., M.A.  
Acting Lectr.

### *Law*

Cumbræ-Stewart, F. W. S., D.C.L.  
Ox., K.C. Garrick Prof.

### *Mathematics*

..... Prof.



Raybould, Ethel H., M.A.	Lectr.	<i>Physics</i>	
Simonds, E. F., M.A., B.Sc. Syd.		Parnell, T., M.A. Camb.	Prof.
Ph.D. Col.	Lectr.	Lusby, S. G., M.A. Syd.	Asst. Prof.
McCarthy, J. P., M.A.		Rimmer, T., M.Sc. Manc.	(Phys. and Meteorol.)
	Acting Lectr.		Lectr.
<i>Medical Psychology</i>		<i>Surveying</i>	
Lowson, J. P., M.A., M.D. Edin.		James, F. W., M.Sc.	
	Research Prof.		Part-time Lectr.
<i>Modern Languages</i>			
Robinson, F. W., M.A. Syd., Ph.D.			
Jena	Lectr.	<i>External Studies</i>	
Schindler, C., M.A.	Lectr.	Jones, T. E., B.A. Syd.	Director.
Tommerup, H. G., B.A.		Darvall, Annie E. J., B.A.	Asst.
	Part-time Lectr.	Smith, Marjorie M. C., B.A.	Asst.
<i>Philosophy</i>			
Scott-Fletcher, M., M.A. Syd.,		<i>Workers' Tutorial Classes</i>	
B.Litt. Ox.	Prof.		
Kyle, W. M., M.A.	Lectr.	Molesworth, B. H., M.A.	Director.

## RECOGNIZED RESIDENTIAL COLLEGES

- EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.  
 St. JOHN'S (C. of E.). Warden—Rev. W. S. Milne, M.A. Melb.  
 KING'S (Methodist). Master—Rev. H. H. Triggs, M.A., B.D. Melb.  
 St. LEO'S (R.C.). Rector—Rev. J. English, D.D.  
 WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

## GENERAL INFORMATION

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 are appointed by the Government and 10 are elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. In 1923 a further £2000 was voted by the Government, and the amount of £22,000 p.a. was contributed until 1931. In that year, in keeping with general reductions throughout Australia, the Govt. grant was reduced to £19,240 p.a. Under the will of the late Sir Samuel McCaughey the Univ. received an annual income of about £11,000. It is expected that, owing to the lower rates of interest being earned by investments in Govt. Loans, as a result of the conversion arranged in 1931, the income from this source will amount only to £9000 p.a. in future.

The grounds and buildings facing the Brisbane River and adjoining the Botanical Gardens up to 1931, included, in addition to the main building and recreation grounds, 6 floors, being the greater part of three blocks of the Central Technical College buildings.

The remainder of these three blocks had to be taken over by the University in 1932, in order to accommodate the increased number of students.

The present site belongs to the Central Technical Coll. and is only used

temporarily for Univ. purposes. The permanent site of the Univ. consisting 223 acres, is situated on the Brisbane River in the suburb of St. Lucia. It has a river frontage on three sides, and was the gift of Dr. and Miss Mayne, Brisbane. At present the funds needed for the erection of buildings on this site are not available.

**LIBRARY,** 37,438 vols. **LABORATORIES:** Agric., Biol., Chem., Applied Chem., Engin., Geol., Physics, and Psychology.

**FACULTIES.** Arts, Science, Engineering, Agriculture, Commercial Studies, Law, Medicine. Only the first five have been organized for imparting instruction. Under arrangements made through Joint Boards, composed of members of the Univ. and of representatives of the dental and legal professions, candidates can fulfil, in association with the Univ., part of the requirements for entry to these two professions in Queensland.

**DEGREE COURSES.** 3 yrs.—B.A., B.Com., B.Sc.; 4 yrs.—B.Sc. Honours, Sc.Agr., B.Sc. (Applied) in Industrial Chem., and B.E. in Civ., Mech. and Elec. Chem., or Mining Engin.

*A Diploma Course* in Mech. and Elec. Engin. (may be followed in any approved Coll. or Instn.), 4 yrs.; a Diploma course of at least 2 yrs. for persons who have had 3 yrs.' practical experience of Journalism; in Commerce a Diploma and a Certificate are offered.

**HIGHER DEGREES.** M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs.' standing, through examn. (M.A., examn. and thesis). M.E., open to B.E. of 3 yrs.' standing, 25 yrs. of age, and engaged in professional work. D.Sc. open to M.Sc. of 5 yrs.' standing by examn. and thesis.

**EVENING LECTURES AND EXTERNAL STUDENTS.** Evening students may tend their courses over 5 yrs. in Arts and Sc. No evening work in Engin. subjects is done, but by completing 5 yrs.' evening work at approved institutions exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue certain courses in the Faculties of Arts and Commerce under the guidance of the Director of Correspondence Studies. They may thereby, provided they pass the prescribed examns. (which may be held at local centres), qualify for degrees.

**ADULT MATRICULATION.** Candidates who have attained the age of 25 yrs. may be admitted to matric. in the Faculties of Arts, Science, and Engineering on passing a special examn.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** 2 gold medals offered by Govt. for distinction at graduation; £100 p.a. for 2 yrs. for Original Research; £200 for 1 yr. for Engin. work; £250 p.a. for 2 yrs. for study outside Australasia; £500 p.a. for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research; £450 p.a. for 2 yrs. in Econ. Biol.

**RESIDENCE.** Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or other instn. approved by the Senate. Fees in any of the Colleges, including residence, uniforms, and tuition, amount to approx. 20 gs. a term.

**PUBLIC EXAMINATIONS** are held by the Univ. annually in Nov. and Dec.: minor (divided into 6 sections, viz.—General, Art, Commercial, Home Sci., Agric. and Industrial) and Senior. For matric. the corresponding public examns. of the Univs. of Adelaide, Melbourne, and Sydney are treated as equivalent to these.

**MUSIC EXAMINATIONS.** Under a joint scheme, controlled by the Australian

Music Examns. Board, which is representative of the Universities of Queensland, Melbourne, Tasmania, Adelaide, and Western Australia, and the State Conservatorium of Music of New South Wales, examns. in Music are held throughout the Commonwealth twice a year, in May and September.

PUBLICATIONS. *Calendar* (Jan.) (Pt. I.—containing permanent matter such as the Univ. Act, Statutes, Rules, etc.—pubd. every 5 yrs., and Pt. II.—containing the diary, details of subjects for study, time-tables, etc.—every year. Price of each part, 2s. (postage 6d. extra); *Manual of Pub. Examns*, 2s. (postage 3d. extra); *Music Manual*, free, postage 3d.

## THE YEARS 1931, 1932

BENEFACTIONS. Since Sept. 1931: £27:10s. from Queensland Chamber of Agricultural Societies (third grant of equal amount) for a scholarship in Animal Husbandry; £15 from Mr. and Mrs. A. S. Bloomfield, Melbourne (second payment), for a returned soldier's scholarship; £10,329 from the trustees of the late Sir Samuel McCaughey (annual income on approximately £200,000 held by the trustees in the name of the Univ.) for general purposes; £1000 from the trustees of the late Walter and Eliza Hall (annual grant) for research fellowships in Econ. Biol. and in Engin.; £50 from Mrs. Henry Youngman, Brisbane (second payment), to provide a prize for students of Agric. for work in Soil Chemistry.

NEW BUILDINGS. Another floor of one of the Central Technical College buildings taken over.

EXTRA-MURAL WORK. In accordance with the conditions of a donation to commemorate the late John Murtagh Macrossan (a former Queensland statesman), two lectures on "Art and Life" were delivered in Brisbane (by L. Bernard Hall of the National Art Gallery, Melbourne) in Sept., 1931; and in accordance with the conditions of a donation by the Queensland Univ. Extension Council in memory of the late John Thomson, M.B. (a founder of the Univ.), two lectures on "The Social Control of Economic Forces" were delivered in Brisbane (by J. B. Brigden, M.A.) in Oct. 1931. These Lectures by eminent persons, on approved subjects, are arranged annually. The public lectures in Brisbane and in country towns, referred to in last year's report, have not yet been resumed.

VISITS OF TEACHERS FROM OTHER UNIVS. In Dec. 1931, Prof. L. D. Coffman, Ph.D., LL.D., President of the Univ. of Minnesota, U.S.A., visited the Univ. as Carnegie Professor. His attention was devoted mainly to the extension of Library facilities, and to the selection of graduates holding important teaching or administrative positions to be sent abroad to observe and study in England and America, both at the expense of the Carnegie Corporation. Prof. A. H. Compton, Prof. of Physics at the Univ. of Chicago, U.S.A., visited the Univ. during May 1932, where he spent several days making observations and carrying out tests connected with cosmic rays.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVS. During 1928 A. C. V. Melbourne, M.A., Lectr. in Econ. and Colonial Hist., was awarded a Laura Spelman Rockefeller Fellowship, and proceeded to London for the purpose of carrying out historical research into Australian records up to the date on which each Australian colony was granted responsible government. In June 1931, J. L. K. Gifford, M.A., Lectr. in Econ. and Hist., was awarded a Rockefeller Fellowship and left on a visit to Germany for the purpose of studying "Banking

and currency policy in relation to gold and paper standard conditions, and the business cycle."

DEATH. Prof. Henry James Priestley, M.A. (Maths.).

STUDENTS. (1931) Full-time, 269; part-time, 530; total, 799. (1932) Full-time, 279; part-time, 547; total, 826.

DEGREES (1931). B.A., 37; M.A., 5; B.Com. (Commerce), 1; B.Sc., 15; M.Sc., 1; B.Sc. (Agric.), 4; B.E., 7; M.E., 2.

(1932). B.A., 40; M.A., 1; B.Com. (Commerce), 1; B.Sc., 13; M.Sc., 2; B.Sc. (Agric.), 6; B.Sc. (Applied) in Industrial Chemistry, 1; M.Sc. (Applied) in Industrial Chemistry, 1; B.E., 12.

# UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D.

DEPUTY-CHANCELLOR—Sir MUNGO W MACCALLUM, K.C.M.G., M.A., LL.D., D.Litt.

VICE-CHANCELLOR—R. S. WALLACE, M.A. Aber. and Ox., LL.D. Aber.

REGISTRAR—W. A. SELLE, M.A.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B.A.

## PROFESSORS, LECTURERS, ETC.

*Accountancy*, v. Com.

*Agriculture*, v. also Vet. Sci.

Watt, R. D., M.A., B.Sc. Prof.

Lectrs. :

Waterhouse, W. L., D.Sc.Agr., D.I.C. Lond. (Plant Path. and Agr. Bot.).

Wright, G. (A. Chem.).

Anderson, R. H., B.Sc.Agr. (Forestry).

Savage, C. G. (Fruit Culture).

*Anatomy*

Burkitt, A. N. St. G. H., M.B., B.Sc. Challis Prof.

Stump, C. W., M.D., D.Sc. Edin. (Histology and Embryology)

Bosch Prof.

Richardson, K. C., M.Sc. W. Aust. Lectr.

Coppleson, V. M., M.B., Ch.M., F.R.C.S. (Surg. A.)

Lectr. & Demr.

Garde, Mary L., B.Sc. (Histol.) Asst. Lectr.

Demrs :

Nowland, R. E., M.B., Ch.M.

Miller, I. D., M.B., Ch.M.

Webb, A., M.B., B.S. Adel.

*Anthropology*

.....

Prof.

Firth, W. R., M.A. N.Z., Ph.D.

Lond. Lectr. & Acting Prof

Hogbin, H. I. P., M.A., Ph.D. Lond.

Actg. Lectr.

*Architecture*

Wilkinson, L., F.R.I.B.A., F.I.A. (Dean) Prof.

Hook, A. S., A.R.C.A. (Pract. and Constn.) Assoc. Prof.

Carter, N (Freehand Dr) Instr.

Moore, J. D., A.R.I.B.A. (Design) Lectr.

Richardson, R.

1 Studio Asst.

Lectr.

*Astronomy*, v. Geodesy

*Botany*, v. also Agric.

Osborn, T. G. B., D.Sc. Man. (Dean) Prof.

McLuckie, J., M.A. Glas., D.Sc. Asst. Prof.

Brough, P., M.A., B.Sc., B.Sc.Agr. Glas. Lectr. & Demr

2 Demrs.

*Chemistry*

Fawsatt, C. E., D.Sc. Edin., Ph.D. Leip. Prof.

Lectrs. & Demrs. :

Burrows, G. J., B.Sc.

Iredale, T., B.Sc. Syd., D.Sc.  
Lond.

Mellor, D. P., M.Sc. Asst. Lectr.  
i Demr.

*Chem., Organic, Pure and  
Applied*

Earl, J. C., D.Sc. Adel., Ph.D  
St. And., F.I.C. Prof

Lions, F., B.Sc., Ph.D. Manc  
Lectr.

Trikojus, V. M., B.Sc., D.Phil. Ox.  
Lectr.

i Demr.

*Classics*

Woodhouse, W. J., M.A. Ox.  
(Greek) Prof.

Todd, F. A., B.A., Ph.D Jena  
(Latin) (Dean) Prof.

Lectrs.:

Powe, A. B., M.A. Q'ld (Latin).

Robinson, A. H., M.A. (Latin).

Shipp, G. P., B.A. (Latin).

*Commerce*

Lectrs.:

Kerr, I. W., B.Ec., F.I.C.A.  
(Acctcy.).

Burt, S. J., B.Ec. (Business).

Bradley, W. J., B.A., LL.B. (Com.  
and Indust. Law).

*Dentistry, v. infra*

*Economics*

Mills, R. C., LL.M. Melb., D.Sc.  
(Econ.) Lond. Dean & Prof.

Madgwick, R. B., M.Ec. Lectr.

Portus, G. V., B.Litt. Ox., M.A.  
(E. Hist.) Lectr.

Bland, F. A., M.A., LL.B. (Pub.  
Admn.) Lectr.

Watts, P. R., B.A., LL.B. (Mod.  
Pol. Institutions) Lectr.

Sawkins, D. T., B.A. Camb., M.A.,  
F.S.S. (Statistics) Lectr.

*Education*

Mackie, A., M.A. Prof.

Cole, P. R., M.A., Ph.D. Col. (Hist.  
of Ed.) Lectr.

Roberts, T. T., M.A. Lectr.

Phillips, G. E., M.A., D.Sc. Lectr.

*Engineering, v. infra*

*English Language*

Holme, E. R., O.B.E., M.A.

McCaughey Prof.

Waldock, A. J. A., M.A. Lectr.

*English Literature*

MacCallum, Sir Mungo W.,  
K.C.M.G., M.A., LL.D. Glas.,  
D.Litt. Ox. Hon. Prof.

Brereton, J. Le Gay, B.A. Prof.

*Forestry, v. Agric.*

*French*

Nicholson, G. G., C.B.E., M.A.,  
B.C.L. Ox. McCaughey Prof.

Marks, Gladys, B.A. Lectr.

Barbier, C. H., L. ès L. Lectr.

*Geodesy and Astronomy*

Sawkins, D. T., B.A. Camb., M.A.  
Russell Lectr.

*Geography*

Holmes, J. McD., B.Sc. Glas.  
McCaughey Assoc. Prof.

2 Demrs.

*Geology and Phys. Geog.*

Colton, L. A., M.A., D.Sc.  
Prof. & Hovell Lectr.

Browne, W. R., D.Sc. Asst. Prof.

Waterhouse, L. L., B.E.

Lectr. & Demr.

Osborne, G. D., D.Sc.

Lectr. & Demr.

Dun, W. S. (Palaeont.) Lectr.

Powell, Dorothy E., B.Sc. Demr.

Quodling, Florrie M., B.Sc. Demr.

*German and Comparative Lit.*

Waterhouse, E. G., M.A.

McCaughey Assoc. Prof.

*History, v. also Econ.*

Roberts, S. H., M.A. Melb., D.Sc.  
(Econ.) Lond., Litt.1) Melb.

Challis Prof.

Wood, F. L., B.A. Lectr.

*Japanese, v. Oriental*

*Law, v. infra*

*Mathematics, Pure and Applied*

Carlsaw, H. S., M.A., Sc.D. Camb.,  
D.Sc. Glas., LL.D. Glas. Prof.

Wellish, E. M., B.A. Camb., M.A.  
(Appl. M.) Assoc. Prof.  
Lyons, R. J., M.A. Camb., B.A.  
Syd. Lectr.  
Thorne, H. H., M.A. Camb., B.Sc.  
Lectr.

*Medicine, v. infra*

*Mining, v. Engineering*

*Oriental Studies*

Sadler, A. L., M.A. Ox. Prof.

*Philosophy* [Challis Prof.]

Anderson, J., M.A. Glas.

Porter, N. C., B.A. Melb.

Asst. Lectr.

*Physics*

Vonwiller, O. U., B.Sc. Prof.

Bailey, V. A., M.A., D.Phil. Ox.  
Assoc. Prof.

Briggs, G. H., B.Sc., Ph.D. Camb.  
Asst. Prof.

Booth, E. H., M.C., B.Sc., F.I.P.  
Lectr. & Demr.

2 other Demrs.

*Physiology* [Prof.]

Davies, H. W., M.B., B.S. Adel.

Priestley, H., M.D., Ch.M., B.Sc.  
McCaughy Assoc. Prof.

Lectrs. & Demrs. :

Cotton, F. S., D.Sc.

McQuiggin, H. G., M.B., Ch.M.,  
B.Sc.

Wardlaw, H. S. H., D.Sc.

Hindmarsh, Ellen M., B.Sc.

2 Demrs.

*Psychology*

Lovell, H. T., M.A., Ph.D. Jena  
McCaughy Prof.

Martin, A. H., M.A., Ph.D. Col.  
Lectr.

1 Demr.

*Veterinary Science*

Stewart, J. D., M.R.C.V.S.,  
B.V.Sc. Dean & Prof.

Carne, H. R., B.V.Sc. (V. Path.  
and Bact.) Lectr.

Gunn, R. M. C., B.V.Sc., B.Sc. Agr.  
Birm. & Syd., M.R.C.V.S.  
(V. Surg. & Anat.) Lectr.

Henry, M., D.S.O., B.V.Sc.  
M.R.C.V.S. (Vet. Juris.)

Lectr

Clunies-Ross, I., D.V.Sc. (V  
Parasitol.).

Creswick-Jackson, N. E., B.V.Sc.  
(V. Mat. Med. and Pharm.)

Lectr

Drabble, J., B.V.Sc. (Meat In  
spection) Lectr

Whitehouse, F., B.V.Sc. (Zoo  
techny) Lectr

Webb, R. M., B.V.Sc. (V. Anat.)  
Asst Lectr

Whittet, J. M. (Pastoral Bot)  
Lectr

*Zoology*

Dakin, W. J., D.Sc. Liv., F.L.S.  
Challis Prof

Briggs, E. A., D.Sc.  
Lectr. & Demr

Colefax, A. N., B.Sc.  
Lectr. & Demr

Woodhill, A. R., B.Sc. Agr. (En  
tomol.) McCaughy Lectr  
& Demr.

*Engineering*

*Civil* [Challis Prof]

Miller, W. A., B.Sc. Glas., M.E.  
Vogan, H. J., B.E.

Lectr. & Demr

Leech, T. D. J., B.Sc., B.E.  
Lectr. & Demr

Lectrs. :

Bickford, C. R. (Harbour and  
Docks).

Larkins, H. M., B.E. (Irrigation).

Nicol, T. B., B.E. (Water Supply  
and Sewerage).

Vicars, J., M.E. (Road Pavement)

Hodgson, C. A., M.A. Camb. (Econ  
of Rly. Transport).

Aston, R. L., B.Sc., B.E., Ph.D  
Camb. (Surveying, etc.).

3 Demrs.

*Electrical*

Madsen, J. P. V., B.E., D.Sc.  
Adel. Russell Prof

## Lectrs. &amp; Demrs. :

Sharp, L. H., B.Sc., B.E.

Campbell, E. F., B.E.

*Mechanical*

Barraclough, Sir H. E., K.B.E.,

V.D., M.M.E. Corn., B.E.,

M.I.M.E., M.I.C.E.

Dean &amp; Russell Prof.

Sutherland, G. F., A.R.C.S.

Asst. Prof.

## Lectrs. &amp; Demrs. :

Swain, H. J., B.A., B.Sc., B.E.

(Internal Combust. Engines).

Gibson, W. H. H., B.Sc., B.E.

Hart, K. R. M., B.Sc., B.E.

3 Hon. Lectrs.

*Mining*

[Russell Lectr.

Power, F. Danvers, F.G.S.

*Technology and Metallurgy*

Eastaugh, F. A., A.R.S.M., F.I.C.

Assoc. Prof.

1 Demr.

## Law, v. also Com.

Peden, The Hon. Sir John B.,

K.C.M.G., K.C., B.A., LL.B.,

M.L.C.

Challis Prof.

*Bankruptcy and Probate*

Kitto, F. W., B.A., LL.B.

Challis Lectr.

*Contracts, Merc. Law, Torts*

Sugerman, B., LL.B.

Challis Lectr.

*Conveyancing* [Challis Reader.

Watts, P. R., B.A., LL.B.

*Criminal Law*

[Lectr.

Treath, V. H., B.A., B.C.L. Ox.

*Divorce*

[Challis Lectr.

Mackenzie, W. K. S., D.S.O., B.A.

*Equity and Company Law*

Roper, E. D., B.A., LL.B.

Challis Lectr.

*International Law & Jurispr.*

Charteris, A. H., M.A., LL.B.

Edin.

Challis Prof.

*Legal Ethics*

Barton, E. A.

Lectr.

*Legal History*

[Lectr.

Windeyer, W. J. V., B.A., LL.B.

*Legal Interpretation*

Chambers, R., B.A., LL.B.

Challis Lectr.

*Procedure, Evidence, & Pleading*

McMinn, W., B.A., LL.B.

Challis Lectr.

*Roman Law*

Nield, J. R., B.A., LL.B.

[Challis Lectr.

## Medicine

(for subjects of first 2 yrs.—

Anat., etc., v. *supra*)*Anæsthetics*

Lidwill, M. C., M.D.

Lectr.

Stokes, E. H., M.B., Ch.M. Tutor.

Maude, J. D., M.B., Ch.M. Tutor.

Heath, L. B., M.B., Ch.M. Tutor.

Hotten, W. I. T., M.B., Ch.M.

Tutor.

*Bacteriology*

[Bosch Prof.

Wright, H. D., B.A. Tas., M.D.,

Ch.B., D.Sc. Edin.

Goldsworthy, N. E., M.B., Ch.M.,

Ph.D. Lond.

Lectr.

*Cancer Research*

Chapman, H. G., M.D., B.S. Melb.

Director of Research.

Sandes, F. P., M.D., Ch.M., B.Sc.

Director of Treatment.

## Asst. Med. Radiotherapists :

Keatinge, Leila K., M.B.

Nisbet, A. T., M.B., Ch.M.

Moppett, W., M.D., Ch.M.

Med Biologist.

## Bio-Chemists :

Bishop, W. B. S., M.Sc.

Bosch Res. Fellow.

Mankin, Winifred R., M.Sc.

Horning, E. S., M.A. Ox., D.Sc.

Melb.

Cytologist.

Bannon, J., B.Sc. Physicist.

Love, W. H., B.Sc. Physicist.

Goulston, Daphne L., B.Sc.

Research Fellow.



Harker, G., D.Sc. Research Worker.

Welsh, A. M., M.B., Ch.M.  
Pathologist.

*Radium Registrars :*

Kenny, R. H., M.B., B.S.

Miller, I. D., M.B., Ch.M.

Bray, Sylvia D., M.B.

Wilkins, T., B.E.

Consulting Engineer.

*Diseases of Ear, Nose, Throat*

Godsall, R. S., M.B., Ch.M.,  
F.R.C.S. Lectr.

*Diseases of the Skin* [Lectr

Molesworth, E. H., M.D., Ch.M.

*Gynaecology*

Davies, R. L., O.B.E., M.B., Ch.M.,  
F.R.C.S. Lectr.

*Infectious Diseases* [Lectr.

Millard, R. J., C.M.G., M.B., Ch.M.

*Materna Medica*

MacPherson, J., M.A., M.B.,  
Ch.M., B.Sc. Lectr.

*Medical Jurispr. and Ethics*

Palmer, A., M.B., Ch.M. Lectr.

*Medicine* [Bosch Prof.

Lambie, C. G., M.C., M.D. Edin.,  
F.R.C.P., F.R.S.E.

*Medicine, Clinical*

Lectrs. :

Blackburn, C. B., O.B.E., M.D.,  
Ch.M. (Dean).

Fairfax, E. W., M.B., Ch.M.

Ritchie, H. J., M.B., Ch.M.

Holmes à Court, A. W., M.D.,  
Ch.M.

Stephen, E. H. M., M.B., Ch.M.

Diethelm, O. A., M.B., Ch.M.

*Med. Tutors :*

Greenaway, T. M., M.B., Ch.M.

Hughes, L. H., M.D., Ch.M.

Susman, E. L., M.B., Ch.M.

Harvey, W. C., M.B., Ch.M.

Willcocks, G. C., M.B.

Evans, Wilfred, M.B.

Stokes, E. H., M.B., Ch.M.

Taylor, R. J., M.B., Ch.M.

*Obstetrics*

Windeyer, J. C., M.D., Ch.M.,  
M.R.C.S., L.R.C.P. Prof.

D'Arcy, Constance E., M.B., Ch.M.  
Lectr.

Ludowici, E., M.B., Ch.M. Lectr.

Harper, Margaret H., M.B., Ch.M.  
(Mothercraft) Lectr.

Gibson, A. J., M.B., Ch.M. Tutor.

Donovan, H. C., M.B. Tutor.

Hipsley, P. L., M.D., Ch.M. Demr.

Ridler, H. A., M.B., Ch.M. Demr.

Farquharson, Alice M. (Mother-  
craft) Demr.

*Ophthalmology*

Waddy, R. G., M.B., Ch.M. Lectr.

*Pathology*

Welsh, D. A., M.A., B.Sc., M.D.,  
F.R.C.P. Edin. Prof.

Inglis, K., M.D., Ch.M.  
Lectr. & Chief Demr.

Walker, A. S., M.D., Ch.M. Demr.

Welsh, A. M., M.B., Ch.M. Demr.  
4 Hon. Demrs.

*Pharmacy*

Finnemore, H., B.Sc. Lond., F.I.C.  
Large, Dorothy K. Sr. Demr.

2 Demrs.

*Preventive Medicine*

Sutton, H., O.B.E., M.D., Ch.B.  
Melb. Prof.

*Psychiatry*

Dawson, Wm. S., M.A., M.D. Ox.,  
D.P.M. Prof

*Surgery*

Dew, H. R., M.B., B.S. Melb.,  
F.R.C.S. Bosch Prof.

*Surgery, Clinical*

Lectrs. :

McKelvey, J. L., M.B., Ch.M.

Storey, J. C., M.B., Ch.M.

Stacy, H. S., M.D., Ch.M.

Aspinall, A., M.B., Ch.M.

Wade, R. B., M.D., Ch.M.

Coppleson, V. M., M.B., Ch.M.

*Tutors :*

Farranridge, T., M.B., Ch.M.

Furber, T. M., M.B., Ch.M.

McCredie, D. W., M.B., Ch.M.	Ash, P. A., D.D.S. (Surg. D.) Lectr.
Money, R. A., M.B., Ch.M.	Smith, Donald (Surg. D.) Lectr.
Sharp, W. A. Ramsay, M.B., Ch.M., F.R.C.S. (Edin.)	Charlton, P. C., D.M.D., L.D.S. Eng., F.A.C.D. (Dental Mat. Med) Lectr.
McIntosh, A. M., M.B., Ch.M.	2 Demrs.
Kay, W., M.B., Ch.M.	
Perry, W., M.B., Ch.M.	

## University Extension

Dentistry	Mackay, I. G., C.M.G., D.S.O., B.A. Secy. to the Board.
Reading, R. F., M.R.C.S., L.R.C.P., L.D.S. Eng. McCaughey Prof.	Portus, G. V. (v. <i>supra</i> , Econ.) Dir. of Tutorial Classes.
Burne, A. D., D.D.S. Lectr.	Bland, F. A. (v. <i>supra</i> , Econ.) Asst. Director.
Marshall, F., C.M.G., D.D.S. (Mech. D.) Lectr.	1 full-time tutor and 41 tutorial class lectrs.
Gates, E. C., D.D.S. (Clin. D.) Lectr.	

## COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—Rev. A. H. Garnsey, M.A.  
Sub-Warden—M. R. Morey, B.Sc. 5 other Lectrs.

ST. JOHN'S COLLEGE (R.C.). Rector—Very Rev. M. J. O'Reilly, D.D., C.M.  
Vice-Rector—Rev. J. E. Thompson, C.M., M.A., Dip. Ed. Ox. 6 other Lectrs.

ST. ANDREW'S COLLEGE (Prosb.). Principal—E. E. Anderson, M.A., D.D.  
Aberd. Vice-Principal—J. G. Stephens, B.Sc., M.B., Ch.M. 14 other Profs.  
and Lectrs.

WESLEY COLLEGE (Methodist). Master—Rev. L. E. Bennett, M.A. Melb.,  
B.D. Lond. Vice-Master—W. E. Fisher, M.B., Ch.M. 5 Lectrs.

THE WOMEN'S COLLEGE (undenominational). Principal—Miss S. J.  
Williams, M.A. Melb. and Syd. 6 Lectrs.

SANCTA SOPHIA COLLEGE (R.C. Women). Principal—Mother Helen  
Boydell. Vice-Principal—Mother Mary Arnold, M.A. 5 Lectrs.

## GENERAL INFORMATION

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904, W. O. Watt, £78,354, 1925–1928, and G. H. Bosch, £249,000, 1927–1928. Under the will of Sir S. McCaughey it receives an annual income which amounted in 1930 to £23,020. In 1912 the Statutory endowment was raised from £10,000 to £20,000, with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archit. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The Faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the

Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The FISHER LIBRARY, endowment £30,000, 200,000 vols., receives about 1800 serial publications. MUSEUMS: Nicholson collection of Egyp., Greek, Roman and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool.; Obstetric, Materia Medica. LABORATORIES: Schools of Med., Engin. and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. There is a Marine Biological Station at the entrance to Port Jackson with a small auxiliary yacht for biological and oceanographical research under Prof. Dakin. The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. Arts, Law, Med., Science, Engin., Dent, Vet. Sc., Agric., Econ., Archit.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE. The School acts as the teaching and examn. centre for the Univ.'s Diplomas of Public Health, Trop. Medicine, and Trop. Hygiene. In addition a course in Preventive Med. is given, and lectures in School Hygiene for the Diploma in Education. Short courses are also given in Architectural Hygiene, Social Hygiene, and Trop. Hygiene. The School is financed by the Commonwealth Health Dept., but all teaching is directly controlled by the Univ. and the Fac. of Med., together with all matters concerning diplomas, syllabuses, fees, examns., etc. An Advisory Council, under the Chairmanship of the Director-General of Public Health, Commonwealth of Australia, deals with all matters of policy. The staff consists of a Director (also Prof. of Preventive Med.), 4 Med. Officers (incl. 2 Deputy Directors), and a number of Visiting Lectrs.; 1 Entomologist, 4 Tech. Assts., and 3 Clerks. The D.P.H. requirements are those of the General Medical Council of Gt. Britain, the D.T.M. corresponds to similar courses at the London School of Hygiene and the Liverpool School of Tropical Medicine. The main divisions of the School are those of Chem. and Physics, Bacteriol. and Pathol., Parasitol., Entomol., Indust. Hygiene. An excellent Library, especially in Trop. Med. and Hygiene, is available. Adequate accommodation is available for research students.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—Honours B.Sc., B.Sc. in Agric. (3 after Agric. Coll. course), B.Ec., LL.B., B.D.S., B.V.Sc., B.E. (in Civil Engineering, Mechanical and Electrical Engineering, Mining and Metallurgy, or Engineering Technology); 5 yrs.—B.Arch.; 6 yrs.—M.B., B.S.; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk. HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc.; 3 yrs.—D.Sc., M.E.; 5 yrs.—D.Sc. Eng.; D.Dent.Sc.; D.V.Sc., D.Sc.Agr. DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Com., 3 yrs.; D.P.H., D.T.M. D.T.H.; Psychiatry, Anthropology; Journalism; Public Administration. Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Sydney. Holders of the Diploma of the *Hawkesbury Agricultural College* or any college of

similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of £200 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Scholps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

**RESIDENCE.** The four denominational Colls. (v. *supra*) provide accommodation for about 260 students; the Women's Coll. for about 70, and Sancta Sophia College for 50 R.C. women students.

**UNIVERSITY EXTENSION LECTURES** are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1931 the Govt. grant for this purpose was £4838; 57 classes were at work, including 1798 effective students.

**ADULT MATRICULATION.** Persons of distinct educational merit who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Arts, Science, and Econ.

**PUBLICATIONS.** *Calendar* pubd. in June, 4s., with annual report and list of publins. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads.' mag., 5s. p.a. (3 issues); *The Union Recorder* (weekly during Term).

## THE YEARS 1931, 1932

**BENEFACTIONS.** The late Lucien Henry, bequest of £1000 for Tubercular Research.

**CHANGES IN BY-LAWS.** The By-Laws have been amended to admit graduates of any Faculty to any other Faculty as undergraduates, although they may not have passed at their qualifying matricn. examn. in the subjects prescribed for matricn. in the second Faculty.

**VISITS OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS.** 1930-31—Prof. C. A. Duniway, Prof. of Hist. at Carleton Coll., Minnesota, as Visiting Carnegie Professor. 1931—Prof. Lotus D. Coffman (Minnesota). 1932—Asst. Prof. Culliton (McGill).

**RETIREMENTS AND RESIGNATIONS.** J. R. Jones (Vet. Sci.), Dr. C. G. McDonald (Med.), Dr. C. R. McRae (Educ.), Dr. H. R. G. Poate (Med.), Dr. A. S. Walker (Med.), E. K. Wolstenholme (Agric.), Dr. R. Firth (Arts).

**DEATHS.** Dr. R. H. Todd (Med.), E. le Gay Brereton (Sci.).

**STUDENTS.** Matriculated students, 2537; post-graduate students, 117; non-matriculated students, 437.

**DEGREES.** M.A., 9; B.A., 177; LL.D., 1; LL.B., 38; M.D., 2; M.B., 43; B.S., 31; Ch.M., 2; D.Sc., 1; M.Sc., 3; B.Sc., 75; B.E., 23; D.D.Sc., 1; B.D.S., 14; B.V.Sc., 5; B.Sc.Agr., 2; B.Ec., 18; B.Arch., 8. Total, 453.

# UNIVERSITY OF TASMANIA, HOBART

VISITOR—H.E. Sir HERBERT NICHOLLS, K.C.M.G., LL.B., Lieut-Governor.

CHANCELLOR—HON. Sir NEIL ELLIOTT LEWIS, K.C.M.G., M.A., B.C.L.

VICE-CHANCELLOR—W. J. T. STOPS, LL.B.

REGISTRAR—Lt.-Col. L. R. THOMAS, D.S.O., J.P.

LIBRARIAN—E. MORRIS MILLER, M.A., Litt.D.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy and Auditing</i>	<i>History</i>	[Lectr.]
Hewer, A. R., F.I.C.A. Lectr.	King, C. S., M.C., M.A. Ox., B.A.	

<i>Biology</i>	<i>Law</i>
Hickman, V. V., B.A., B.Sc. Lectr.	McDougall, D. G., M.A., B.C.L. Ox., M.A., LL.D. Melb. Prof.

<i>Chemistry</i>	
MacLeod, P. J., B.A. N.Z. Lectr.	Doyle, G. L., LL.B. Lectr.
Kurth, E. E., B.Sc. Lectr. (Applied Chem.).	Wright, R. C., B.A., LL.B. Lectr.

<i>Classics</i>	<i>Mathematics</i>
Dunbabin, R. L., M.A. Ox. Prof.	Pitman, E. J. G., M.A., B.Sc. Melb. Prof.

<i>Economics</i>	
Hyttten, T., M.A. Prof.	Lowenstern, Edith R., M.A. Melb. Lectr.

Dallas, K. M., B.Com. Lectr.	<i>Modern Languages</i>
Anderson, D. L., B.Com. Lectr.	Malthus, C., M.A. N.Z. Lectr.
	MacFarlane, C.W., B.A. Asst. Lectr.

<i>Education</i>	
Hills, W., B.A. Lectr.	

<i>Engineering</i>	<i>Psychology and Philosophy</i>
Burn, A., B.E. Syd., M.Sc. Prof.	Miller, E. Morris, M.A., Litt.D. Melb. Prof.

Tuck, H. P., B.Sc., B.E. Adel. Lectr. (Elec. E.).	<i>Physics</i>
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Schneider, W. H., B.E. Adel., B. Com. Lectr. (Mech. E.).	McAulay, A. L., M.A. Camb., Ph.D. Manc., B.Sc., F.Inst.P. Prof.
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Field, J. Lectr. (Drawing and Design).	Cruickshank, F. D., B.Sc. Asst. Lectr.
--	--

<i>English Lang. and Literature</i>	<i>Tutorial Classes</i>
Taylor, A. B., M.A. Ox. Prof.	Prof. T. Hyttten, M.A. Director.
Williams, Wm. H., M.A. Camb. (E. Lit.) Emer. Prof.	

## AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

## GENERAL INFORMATION

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. The Govt. grant for 1931-1932 was £9831.

**ADMISSION OF PERSONS OF MATURE AGE.** Persons not below 25 yrs. of age who satisfy Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matriculation.

**LIBRARY**, 28,000 vols. **LABORATORIES**: Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. **OBSERVATORY**, 8" reflector telescope.

**DEGREE COURSES**: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. **HIGHER DEGREES**. Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., D.Sc.; to Masters of 3 yrs.' standing, LL.D. **DIPLOMAS** of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying. **CERTIFICATE** of Commerce, 2 yrs.' course. **DIPLOMA** of Public Administration, 3 yrs.' course.

**UNIVERSITY EXTENSION.** Tutorial classes.

**PUBLIC EXAMINATIONS.** Intermediate and Leaving; Music (held in conjunction with other Australian Univs.).

**PUBLICATIONS.** *Calendar* (March), 2s.; *Pub. Examn. Manuals*, 1s.; *Degree Examn. Papers*, 1s. Univ. news appears in *Hobart Mercury*. Students' Paper, *Togatus* (issued fortnightly).

## THE YEARS 1931, 1932

**EXTRA-MURAL WORK.** W.E.A. and Tutorial Classes.

**STUDENTS (1931).** Full-time: total, 254. Part-time: total, 126, incl. 12 graduates.

**DEGREES (1931).** B.A., 22; B.Sc., 3; B.E., 4; LL.B., 5; B.Com., 4; M.A., 1; M.Sc., 1; D.Sc., 1; LL.D., 1.

**STUDENTS (1932).** Full-time: total, 228, incl. 4 graduates. Part-time: total, 140, incl. 6 graduates.

**DEGREES OBTAINED (1932).** B.A., 20; B.Sc., 11; B.E., 4; LL.B., 2; B.Com., 2; M.Sc., 1; M.E., 1.

# UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H E THE LIEUTENANT-GOVERNOR.

CHANCELLOR—The Hon. Sir WALTER H. JAMES, K.C.M.G., K.C.

PRO-CHANCELLOR—J S. BATTYE, Litt.D., LL.B.

VICE-CHANCELLOR—Emeritus Professor H. E. WHITFIELD, C.B.E.,  
B.A., B.E., M.I.M.M.

WARDEN OF CONVOCATION—Ven Archdeacon C. L. RILEY, M.A., LL.B.

CLERK OF RECORDS AND EXAMNS.—A. S. PRESHAW, B.A., A.A.I.S.

ACCOUNTANT AND CLERK OF CONVOCATION—R. E. PARKER, L.I.C.A.,  
A.A.I.S.

LIBRARIAN—M. EVALYN WOOD, B.A.

## PROFESSORS AND LECTURERS, ETC.

<i>Agriculture</i> , v. also Vet. Sci.		<i>Classics</i>	[Assoc. Prof.]
Paterson, J. W., B.Sc. Edin.,	Prof.	Wood, G., M.A. Aberd. and Oxon.	
Ph.D. Leip.		Storrs, Rev. C. E., M.A. Camb.	
Pt.-time Lecturers:			Pt.-time Lectr.
Teakle, L. J. H., B.Sc., Ph.D.		<i>Economics</i>	
Calif. (A. Chem.).		Shann, E. O. G., M.A. Melb.	
Baron-Hay, G. K., B.Sc. (Dairying).			Prof. (on leave).
Wickens, G. W. (Hortic.).		Solomon, S. E., B.A., B.Com. Tas.	
Gardner, C. A. (A. Bot.).			Acting Lectr. in Charge.
Pittman, H. A., B.Sc. Agric. Syd.		Limbrick, S. F., B.A., B.Com. Tas.	
(Plant Pathol.).			Lectr.
<i>Architecture</i>		Preshaw, A. S., B.A. Temp.	Lectr.
Wright, A. R. L., L.R.I.B.A.,		<i>Education</i>	
F.R.I.A.W.A. Pt.-time Lectr.		Cameron, R. G., M.A. Syd.	Prof.
<i>Biology</i>		9 Part-time Lectrs.	
Nicholls, G. E., D.Sc. Lond.,		<i>Engineering</i>	
A.R.C.Sc.	Prof.	Fraenkel, P. H., B.E.E. Melb.,	
Horgan, N., B.Sc.	Asst.	M.I.E.E., M.I.E.A., M.I.V.E.	
<i>Botany</i>			Assoc. Prof.
Bennett, E. W., M.Sc. N.Z.		Bowden, A. T., B.Sc. Edin.	Lectr.
	Lectr. in Charge.	Blakey, O. F., M.E. Q'land.	Lectr.
Baird, A. M., B.Sc.	Asst.	Wiseman, W. R. B., M.Sc. Manc.	
<i>Chemistry</i>			Asst. Lectr.
Wilmore, N. T. M., D.Sc. Melb.,		Routley, W. F.	Pt.-time Lectr.
F.I.C.	Prof.	Wood, W. E.	Pt.-time Lectr.
Tattersall, G., M.Sc. Manc., F.I.C.		1 Instr.	
	Assoc. Prof.	<i>English</i>	[Prof.]
Elliott, G. A., Ph.D. Lond.	Lectr.	Murdoch, W. L. F., M.A. Melb.	
Babington, P.	Demr.	Thompson, H. S., M.A.	Lectr.

King, A., M A Ox. Pt -time Lectr.

*Forestry*

Kessell, S. L., M.Sc. Adel., Dip For.  
Ox. Pt.-time Lectr.

*French and German*

Clarke, Margaret A., M.A Syd,  
D. ès L Paris Lectr.  
Graebner, R. M., B.A.

Pt.-time Lectr.

Hinde, Rose W. Pt.-time Lectr.

*Geology*

Clarke, E de C., M A N.Z Prof.  
Hosking, L. F. V., B A Lectr  
Terrill, S E, B Sc. Adel. Demr

*History*

Alexander, F., M.A Melb. and Ox  
King, Agnes, Ph.D Lond, M A.  
Pt -time Lectr

*Italian*

Vanzetti, F. Lectr.

*Law*

Beasley, F. R., B.A. Ox., LL.B.  
Syd. Prof.

Tindal, E. Lectr

Blanckensee, E. Lectr.

Virtue, J. E., LL.M. Melb Lectr.

Stow, F. L., LL.D. Lectr.

McMillan, J. F., B.A., LL.B. Camb.  
Lectr.

*Mathematics*

Weatherburn, C. E., M.A. Camb.,  
D.Sc. Syd. Prof.

*Music*

Leckie, A. J., Mus.Bac. Adel.,  
F.R.C.O. Pt -time Lectr.

*Philosophy*

Fox, A. C., M.A. Syd. Assoc. Prof.

*Psychology*

[Lectr.  
Fowler, H. L., M.A., Ph.D. Lond.

*Physics*

Ross, A. D., M.A., D.Sc. Glas.,  
F.R.S.E., F.R.A.S., F.Inst.P.  
Prof.

Shearer, J., B.A., M.Sc. Melb.  
Lectr.

Nimmo, R. R., M.Sc. N.Z.,  
Ph D. Camb. Lectr.

Everson, D. W. Demr.

*Surveying*

Nunn, G. M., L.S. Pt.-time Lectr.

*Veterinary Science*

Le Soeuf, L., M.B., B S. Melb.,  
F.R.C.S. Pt.-time Lectr.

Underwood, E. J., B.Sc. (Agric.),  
Ph.D Camb. Pt.-time Lectr.

**University Extension**

2 Tutors for Correspondence  
Courses.

*Adult Education*

9 Tutors.

## AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE, SCHOOL OF MINES, KALGOORLIE, and MURESK AGRICULTURAL COLLEGE.

## GENERAL INFORMATION

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 165 acres for buildings, and receives an annual grant. This was, in 1932, £24,800. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Bot., Chem., Geol., Engin., Phys., Psych., Vet. Sc., Zool.

FACULTIES. Arts, Sc. (including Agric.), Engin. (including Surveying), Law.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—B.A. (Hons.), LL.B. and B.Sc. (Hons.); 5 yrs.—B.E. (a sandwich system during last 3 yrs.) and B.Surv. (including 2 yrs.' field work). First year Med. course in Fac. of Sc.



EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., LL.M., LL.D., M.Sc., M.E., Litt.D., D.Sc.

DIPLOMAS. Education, Agric., Journalism, Commerce.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., Music, and Elocution.

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted as matriculated students if the Faculty concerned is satisfied that they possess sufficient educational qualifications. The Faculty of Arts requires a modified examination; other faculties do not require any examination.

PUBLICATIONS. *Calendar* (Oct.) (no issues 1932 and 1933); *Public Examn. Manual*; *Black Swan* (Students' Magazine); *Pelican* (Students' fortnightly newspaper).

## THE YEARS 1931, 1932

BUILDINGS. The Hackett Memorial Buildings completed (cost £217,000), and the official opening held 13th April 1932.

EXTRA-MURAL WORK. 43 Extension lectures were given in 9 towns during 1931, in addition to numerous broadcasted lectures. The Adult Education Scheme, commenced with 6 groups in 1929, was continued in 1930 with 8 groups and in 1931 with 7 groups.

STAFF VISITS. A. T. Bowden, Dean, Fac. of Engin., F. Alexander, Lectr. in Hist., and R. E. Parker, Accountant, travelled to Europe in 1932 on leave and visited various Univs. and Conferences.

HONORARY DEGREES. LL.D.—Lady Hackett Moulden. M.A.—Hon. Sir Neil Elliott Lewis, K.C.M.G., M.A., B.C.L., Chancellor of the Univ. of Tasmania. Litt.D.—Sir William Mitchell, K.C.M.G., M.A., Vice-Chancellor, Univ. of Adelaide.

STUDENTS (1932 enrolments). (i.) Attending Degree or Diploma Courses: Total, 762; full-time, 447; part-time, 223; external, 48; graduates taking higher degrees, 26; graduates taking single subjects, 18; graduates taking Diploma in Education, 54, included in full-time, etc., figures. (ii.) Taking single subjects, 7.

DEGREES CONFERRED, 1932. B.A., 46; M.A., 2; LL.B., 5; B.Sc., 25; B.Sc. (Agric.), 2; B.Sc. (For.), 1; M.Sc., 1; B.E., 12; Dip.Ed., 31; Dip. Journalism, 4.

# UNIVERSITY OF NEW ZEALAND

*Address*—P.O. Box 1524, Wellington.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—J. MACMILLAN BROWN, M.A., LL.D. Glas.

PRO-CHANCELLOR—Hon. J. A. HANAN, M.L.C.

VICE-CHANCELLOR—Prof. T. A. HUNTER, M.A., M.Sc.

CHAIRMAN, ACADEMIC BOARD—Prof. H. W. SEGAR, M.A. Camb.,  
Auckland.

REGISTRAR—E. T. NORRIS, M.A., Wellington.

ACTING-AGENT IN ENGLAND—A. J. HARROP, M.A., Ph.D., 88 Gower  
Street, London, W.C.I.

## CONSTITUENT COLLEGES

UNIVERSITY OF OTAGO, DUNEDIN ; CANTERBURY COLLEGE, CHRISTCHURCH  
AUCKLAND UNIVERSITY COLLEGE ; VICTORIA UNIV. COLLEGE, WELLINGTON.

## ASSOCIATED COLLEGES

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN ; MASSEY AGRICULTURAL  
COLLEGE, PALMERSTON NORTH.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act. 1908 as amended in 1912, 1914, 1915, and 1926, vests the Government of the Univ. in a Senate of 23 members, assisted, as regards schemes of study, etc., by an Academic Board representing the College Professorial Boards and a University Entrance Board, of which the Vice-Chancellor is the President, and on which there are representatives of the Academic Board, the Department of Education, and the Secondary Schools. The Senate consists of 4 members nominated by the Governor, 8 appointed by the College Governing Bodies, 5 by General Court of Convocation, 3 by the Academic Board, 1 by the Senate itself, and the Director of Education. The Chancellor, Pro-Chancellor, and Vice-Chancellor are elected by the Senate ; the first (or, in his absence, the second) presides at meetings of the Senate. Under the New Zealand University Amendment Acts of 1926 and 1928 and the Massey Agricultural College Act, 1927, Canterbury Agricultural College, Lincoln, and Massey Agricultural College, Palmerston North, were given representation on the Academic Board, and the expression " Professors of the University " includes Professors on the staffs of the two Agricultural Colleges as well as Professors on the staffs of the four Constituent Colleges. The governing bodies cannot make any appointment to a chair without the prior approval of the Senate. There are no University buildings : the offices are at Wellington.

**MATRICULATION.** Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or Greek must pass in Physics or Chemistry (or Home Science), or Botany or

**Agriculture.** Not more than two of these sciences can be taken; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 25 years of age and students from other Univs.

**TERMS.** A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are: Autumn (March-May), Winter (June-Aug), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are: all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S., B.Agr.Sc., B.For.Sc., B.Arc., and LL.B. degree courses; of the 1st and 2nd Groups of the B.Com. course; of the Engineering Intermediate examn.

Any student who is on the books of a constituent College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, or, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, or objects on grounds of religious scruples to such attendance.

**DEGREE COURSES:** 3 yrs.—B.A., B.Sc., B.Mus., B.Agr.Sc. (including practical work on farm), B.For.Sc.; 4 yrs.—B.Sc. in Home Science, B.Arch. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 5 yrs.—B.D.S.; 6 yrs.—M.B., Ch.B., B.Med.Sc.

**HIGHER DEGREES.** M.A., M.Sc., LL.M., M.Com., M.S.; Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.) standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

**DIPLOMAS.** D.P.H. (9 mos.' course); Journalism, Education, Social Science, Banking, Insurance, Fine Arts. *Certificate of Proficiency in Dental Surgery, Shipping Officers' Certificate.*

**PROFESSIONAL AND TECHNICAL SCHOOLS.** *Law and Commerce* at all the constituent Colls.; *Medical and Dental and Home Science* at Otago; *Engineering* (Civil, Electrical, and Mech.) at Canterbury and Auckland; *Minng and Metallurgical Engineering* at Otago; *Music* at Auckland, Canterbury, and Otago; *Agric.* at Lincoln and at Palmerston N. (Massey College); *Forestry* at Canterbury; *Architecture* at Auckland; *Fine Arts* at Canterbury.

**"AD EUNDEM" RECOGNITION.** Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*.

**SCHOLARSHIPS FOR GRADUATES.** In almost every subject of the B.A. or B.Sc. syllabus and in Law, Medicine, Dentistry, and Engineering—£70; Travelling Scholps. in Arts, Science, French, Law, Architecture—£200 (2 yrs.) each, in Engin. and Med.—£150 each; Macmillan Brown Research Scholp. in Agr. (biennial)—£200 (2 yrs. possible). Four National Research Scholarships (£180) are offered annually to graduates of the N.Z. University or other approved persons.

Four first-class return passages to England are granted annually to graduates proceeding to Europe to continue their studies.

**ADULT EDUCATION.** Classes are conducted under the control of the Council

of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £4520, of which £300 was allotted to each College for W.E.A. and extension classes.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Minutes of Prods. of Senate*, free; *Examn Papers*, 6d. or 1s a set; *Reports of Examrs.* (in England and N.Z.), free.

## THE YEAR 1932

No annual grant was paid by the Govt. for the years 1930 and 1931.

HONORARY DEGREES. *D Sc.*—Leonard Cockayne, C.M.G.

RETIREMENT AND DEATH. Prof. J. Park (Otago Sch. of Mines), retired. Prof. F. R. Riley (Midw. and Gynæcol.), died.

STUDENTS (1932). Full-time: total, 2097, including 124 graduates. Part-time. total, 2479, including 209 graduates.

DEGREES (1932). B.A., 176; M.A., 98; B.Sc., 62; M.Sc., 26; D.Sc., 3; LL.B., 57; LL.M., 8; B.Com., 31; M.Com., 1; M.B., Ch.B., 27; M.D., 4; Ch.M., 1; B.D.S., 6; B.E., 20; B.Agr.Sc., 9; M.Agr.Sc., 1; B.For.Sc., 1; B.H.Sc., 11; B.Arch., 3; Mus.B., 2.

# UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—The Hon. Sir T. K. SIDEY, B.A., LL.B., M.L.C.

VICE-CHANCELLOR—W. J. MORRELL, M.A., Oxford.

REGISTRAR—H. CHAPMAN, B.A.

LIBRARIAN—Miss N. I. GORDON.

LIBRARIAN MED. SCH.—W. J. MULLIN, M.B., Ch.B., F.R.C.S.

## PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>English Lang. and Lit.</i>	
Thomas, A., M.Com.	Lectr.	Ramsay, H., M.A. St. And	Prof.
2 Tutors.		Cameron, G. M., M.A.	Asst.
<i>Anatomy</i>		<i>Ethnology</i>	
Gowland, W. P., M.D., B.S. Lond.,		Skinner, H. D., M.A., Dip. Anth.	
F.R.C.S. Eng.	Prof.	Camb., B.A.	Lectr.
<i>Architecture</i>		<i>Geology and Mineralogy</i>	
Miller, E., A.R.I.B.A.	Lectr.	Benson, W. N., B.A. Camb., D.Sc.	
Scoular, S. G., B.E.		Syd., F.G.S.	Prof.
(Descr. Geom.)	Lectr.	Turner, F. J., M.Sc., F.G.S.	Asst.
<i>Biology</i>		<i>Hebrew</i>	
Benham, W. B., M.A. Ox., D.Sc.		Hunter, S. F., M.A., B.D. Glas.,	
Lond., F.R.S.	Prof.	D.D. Melb.	Lectr.
Fyfe, Marion L., B.Sc.	Asst.	<i>History</i> [Prof.]	
<i>Botany</i>		Elder, J. R., M.A., D.Litt. Aberd	
Holloway, J. E., D.Sc.,	Lectr.	McClymont, W. G., M.A.	Asst.
<i>Chemistry</i>		Woods, A. J., M.A.	Asst.
Inglis, J. K. H., D.Sc. Edin.,		<i>History, Constitutional</i>	
M.A., B.Sc., F.I.C.	Prof.	Lang, J., M.A., LL.B.	Lectr.
Carter, C. L., M.Sc., A.I.C.	Lectr.	<i>Home Science</i>	
<i>Classics</i>		Strong, Ann G., B.Sc. Columbia	
Adams, T. D., M.A.	Prof.	Dean and Prof.	
Turnbull, Mary I., M.A.	Asst.	Gregory, Elizabeth, Ph.D. Lond.,	
<i>Dentistry, v. infra</i>		M.H.Sc.	Lectr.
<i>Economics</i>		Bowbyes, Avice M., B.S. Columbia	Lectr.
Fisher, A. G. B., B.A. Melb., Ph.D.		3 Assts.	
Lond.	Prof.	<i>Law</i>	
Billing, G. C., B.A. Adel.	Lectr.	Lecturers:	
<i>Education</i>		Stephens, A. C., LL.B. (Jurispr.).	
Lawson, R., M.A., Litt.D. Melb.	[Prof.]	Neill, A. G. (Crim. Law).	
.....	Asst.	Thomson, J. B., LL.B. (Contracts).	

Cook, H. L., LL.B. (Trusts, etc.).  
Anderson, P. S., B.A., LL.B. (Pro-  
perty L.)

Ward, J. P. (Practice and Proc.).  
Callan, J. B., B.A., LL.B (Torts).  
Paterson, J. M., M.C., M.A., LL.B.  
(Accountancy L.) Dean, Com.  
Fac.

Fairmaid, R. L. (Conveyancing).  
White, C. J. L. (Evidence).  
Haggitt, A. N., LL.B. (Rom. Law).  
Barrowclough, C. B., B.A., LL.B.  
(Conflict of Laws).  
Curzon-Siggers, W. A., LL.M.  
Camb., M.A. (Pub. Intern. L.).  
McIver, L. D. (Auditing).

*Mathematics, Pure and Applied*  
Bell, R. J. T., M.A., D.Sc. Glas.  
Prof.  
Orton, A. A., B.A., M.Sc. W. Aust.  
Beverly Lectr.

*Metallurgy and Assaying*  
Black, H. Lectr.

*Mining*  
Andrew, A. R., D.Sc., F.G.S.,  
M.Am.I.M.E. Dean and Prof.  
Batham, G. S., B.Sc. (Appl.  
Elect.) Lectr.

*Modern Languages*  
Thompson, G. E., M.A., Litt.D.,  
O.A., Dean, Fac. Arts and Sc.

Prof.  
Barron, Vida M., M.A. Asst.  
i Tutor.

*Music* [Lectr.  
Galway, V. E., Mus.D. Melb.

*Philosophy, Ment. and Moral*  
Dunlop, F. W., Ph.D. Jena, M.A.  
Prof.

*Physics*  
Jack, R., M.A., D.Sc. Glas., Ph.D.  
Gött. Prof.  
Focken, C. M., B.M.E., B.Sc.  
Melb., Ph.D. Ox.  
Beverly-Mackenzie Lectr.  
Blackie, Agnes R., M.Sc. Asst.

*Physiology*  
Malcolm, J., M.D. Edin. Prof.

Fogg, W. S., M.B., Ch.B.  
Sr. Demr.  
*Psychology, Experimental*  
Ferguson, H. H., M.A. St. And.  
Lectr.

# Medicine

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Anæsthetics* [Lectr.  
Whyte, Marion K. B., M.B., Ch.B.

*Bacteriology and Pub. Health*  
Hercus, C. E., D.S.O., O.B.E.,  
M.D., B.D.S., D.P.H. Prof.  
Britton, C. J. C., M.B., Ch B.  
Asst.

*Clin. Med. and Clin. Surg.*  
The Hon. Staff of the Dunedin  
Hospl. Lectrs.

*Clin. Medicine*  
Fitchett, F. W. B., M.D., C.M.  
Edin. Prof.  
Moore, S. A., M.D. Edin., B.A.,  
M.R.C.P. Lectr.

Asst. Lecturers :  
Burns, C. R., M.D., M.R.C.P.  
Iverach, J. A. D., B.A., M.B.,  
Ch.B., M.R.C.P.  
Porteous, W. J., M.D., F.R.C.S.  
Edin.

*Diseases of Children*  
Williams, E. H., M.B., Ch.B.,  
M.R.C.S. Eng. Lectr

*Ear, Nose, and Throat*  
Hall, A. J., M.B., Ch.B., M.R.C.S.  
Eng., L.R.C.P. Lond. Lectr

*Gynæcology*, v. Midw. and Gyn.

*Medicine*  
Carmalt-Jones, D. W., M.A., D.M.  
Ox., F.R.C.P. Lond.  
Mary Glendining Prof  
Colquhoun, D., M.D. Lond.  
F.R.C.P., M.R.C.S.  
Emeritus Prof

*Mental Diseases*  
..... Lectr

*Midwifery and Gynæc*

- Dawson, J. B., M.D., B.S. Lond.,  
F R C S. Eng, L.R.C.P. Lond.  
Prof.  
Ritchie, R. I., M.B., Ch.B.,  
M R C.S. Eng, L.R.C.P.  
Lond. (Obstet) Tutor.  
Fitzgerald, G. P., M.B., Ch.B.  
(Clin. Gynæc.) Asst. Lectr.  
North, C., B.A., B.Sc., M.B., Ch.B.,  
M R C.S., L.R.C.P.  
(Gynæc.) Tutor.

*Ophthalmology*

- Ferguson, Sir Henry L., C.M.G.,  
M.A., M.D. Dub., F R C S I,  
Dean, Med Fac. Prof.

*Ophthalmology, Clinical*

- Asst. Lectrs. :  
Carswell, W. E., M.B., Ch.B.,  
L.R.C.P., F.R.C.S.  
Ross, K., M.A., M.B., C.M., D.P.H.  
Cottrell, A. J., M.A., M.Sc., M.B.,  
Ch.B.

*Pathology*

- D'Ath, E. F., M.D. Prof.  
Chapman, Eileen N., M.B., Ch.B.  
Liv. Asst.  
Watt, M. N., M.B., Ch B.  
Clin. Pathologist.

*Radiology*

- de Monchaux, C. S., M.B., Ch.M.  
Syd., D.M.R.E. Camb. Lectr.

*Surgery*

- Bell, F. Gordon, M.B. Edin.,  
L R C.P., F R C.S.  
Ralph Barnett Prof.  
Barnett, Sir L. E., C.M.G., M.B.,  
C.M. Edin., F.R.C.S.  
Emeritus Prof.  
Assts. :  
White, J. R., M.B., Ch.M., F.R.C.S.  
Jenkins, J. A., M.B., Ch.M.,  
F R C.S. (also Clin. Tutor).

*Surgery, Clinical*

- Lectrs. :  
Newlands, W., M.B., Ch.B. Edin.,  
F.R.C.S. Edin., M.A., B Sc.  
Batchelor, F. S., L.R.C.P., F R C.S.  
Asst. Lectrs. :  
Fergus, T., M.B., Ch B., F.R.C.S.  
Greenslade, C. M., M.B., Ch.B.,  
F.R.C.S.  
Barnett, G. M. F., M.B., Ch.B.,  
F R C.S.  
Fulton, R. A. H., M.B., Ch.B.,  
F.R.C.S. Clin Tutor.

*Dentistry*

- Dodds, R. B., D.D.S.  
Dean and Prof.  
Burt, J. R., L.D.S., R.C.S. Edin.  
Assoc. Prof.

*Adult Education*

- 15 Lecturers to W.E.A. Classes.  
Director—Prof. Fisher.

## GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £15,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

CLASS FEES. In separate subjects—in Arts generally, £5 : 5s. for complete

course ; Science, £8 : 8s. ; Law from £1 : 15s. to £5 : 5s. ; Commerce, £1 : 10s. to £5 ; Medicine, all subjects aggregate (6 years), about £218, exclusive of Univ. fees, £45 : 3s. ; Dentistry (4 years), £149, exclusive of Univ. fees, £24 ; Mining (4 years), £134 ; Home Science (4 years), £125 : 4s.

**LIBRARIES.** Main Library, including Departml. Libraries, 20,000 vols. ; Med. Library, 10,000 vols. ; also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. **MUSEUMS :** Biol., Ethnog., Geol., Anat., Path. **LABORATORIES :** Phys., Chem., Physiol., Bact., Path.

**FACULTIES.** Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

**COURSES** for degrees in all the Faculties ; D.P.H. ; Certif. in Dent. Surg. ; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs. ; Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs. ; Associateship in Home Science, 4 or 3 yrs.

**RESEARCH SCHOLARSHIPS, ETC.** Edmond Industrial (Chemical) Research, £210, tenable 2 yrs ; Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs. ; Sir R. Stout (Economics), £50 ; and Anna P. Stout (Economics and History and Home Science—women) ; all open to graduates of Otago. **OTHER RESEARCH FUNDS :** Roberts, Deans, and Barnett endowments, £2000 each for research in med. and surg.

**HOSTELS.** Presbyterian for men and women ; Anglican for men ; Home Science Students'. Cost of board and lodging, 30s. to £2 a week.

**UNIV. EXTENSION.** Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

## THE YEARS 1931, 1932

**NEW POST.** A full-time Professor has been appointed to the Chair of Midwifery and Gynæcol.

**VISITS OF TEACHERS FROM OTHER UNIVS., AND OF MEMBERS OF STAFF TO OTHER UNIVS.** Dr. Coffman, President, Univ. of Minnesota, as representative of the Carnegie Corporation. Dr. Compton, Prof. of Physics, Chicago, lectured on "Cosmic Rays." Dr. John Malcolm, Prof. of Physiol., was granted one yr.'s leave to visit Gt. Britam. Mr. H. Chapman, Registrar, with a grant from the Carnegie Corporation, was granted leave to visit the Univs. of Canada and U.S.A.

**RETIREMENTS AND DEATHS.** J. Park, Prof. of Mining, retired, appointed Prof. Emer. G. W. Reid (Book-keeping), retired. F. R. Riley, Prof. of Midw. and Gynæcol., retired 29/3/32, died 1/8/32. W. G. Hay (Jurispr.), died.

**STUDENTS.** Full-time : total, 800, including 93 graduates. Part-time : total, 431.

**DEGREES OBTAINED.** M.D., 3 ; Ch M., 1 ; M.A., 15 ; M.Sc., 5 ; LL.M., 2 ; M.H.Sc., 2 ; B.A., 31 ; B.Sc., 16 ; LL.B., 20 ; M.B., Ch.B., 20 ; B.Med.Sc., 1 ; B.H.Sc., 12 ; Mus.Bac., 1 ; B.Com., 1 ; B.E., 2.



# CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—CHRISTOPHER THOMAS ASCHMAN.

RECTOR—Prof. JAMES HIGHT, C.M.G., M.A., Litt.D.

REGISTRAR—C. C. KEMP, A.R.A.N.Z.

## PROFESSORS, LECTURERS, ETC.

- Accountancy, etc.*  
 Cordery, L. L., F.I.A.N.Z. Lectr.  
 Smith, W. A. Asst. Lectr.  
 Cuthbert, R. A., B.A., LL.B. (A. Law) Pt.-time Asst. Lectr.  
 1 Student Asst.
- Biology*  
 Percival, E., B.Sc. Leeds (Dean Fac Sc) Prof.  
 Foweraker, C. E., M.A., F.L.S. (Bot.) Lectr.  
 Herriott, Eliz. M., M.A. Lectr.  
 Morrison, L., B.Sc. Aberd. (Entomol.) Lectr.
- Botany, v. Biology*
- Chemistry*  
 Denham, H. G., D.Sc. Liv., Ph.D. Heid., M.A., M.Sc. Prof.  
 Packer, J., M.Sc. Melb. Lectr.  
 Parton, H. N., M.Sc. Asst. Lectr.  
 2 Student Assts.
- Classics*  
 Pocock, L. G., M.A. Lond. Prof.  
 Broadhead, H. D., B.A. Camb., Litt.D. Lectr.  
 Sheppard, Eliz. A., M.A. Pt.-time Asst. Lectr.
- Economics*  
 Tocker, A. H., M.A. (Dean Fac. Com.) Prof.  
 Lawn, G., M.A. Lectr.  
 1 Student Asst.
- Education*  
 Shelley, J., M.A. Camb. (Dean Fac. Soc. Sc.) Prof.
- Purchase, J. E., M.A. Lectr.  
 Beeby, C. E., Ph.D. Manc., M.A. (Experl. and Ednl. Psychol.) Lectr.  
 1 Student Asst.
- Engineering, v. infra*
- English Lang. and Lit.*  
 Sinclair, F., M.A. Prof.  
 Simpson, Helen, Ph.D. Lond., M.A. Lectr.  
 1 Student Asst.
- Forestry*  
 Foweraker, C. E., M.A., F.L.S. Lectr.  
 Hutchinson, F. E., B.Sc. For. Montana (Forest Utilization) Lectr.  
 1 Student Asst.
- French and German*  
 Blunt, T. G. R., M.A. Ox. (Dean Fac. Arts) Prof.  
 White, J. F. D., B.A., M.Sc. (French) Lectr.  
*Geology* [Lectr.  
 Allan, R. S., M.Sc., Ph.D. Camb.  
*History and Political Science*  
 Hight, J., C.M.G., M.A., Litt.D. Prof.  
 Candy, Alice M. F., M.A. Lectr.  
 Brassington, A. C., LL.B. Pt.-time Asst. Lectr.  
 1 Student Asst.
- Journalism*  
 Henderson, A. G., B.A. Lectr.

*Law* v. also Accountancy

Taylor, A. S., B.A., LL.M.  
 (Dean) Lectr.  
 Asst. Lecturers, Pt-time :  
 Gresson, K. M., LL.B. (Property,  
 etc.).  
 Hanna, H. H., LL.B.  
 Gee, L. W., LL.M.  
 Brassington, A. C., LL.B.  
 Brown, A. W.  
 Archer, K. G., LL.B.

*Mathematics*

Saddler, W., M.A., D.Sc. St. And.,  
 B.A. Camb. Prof.  
 Darwin, L. J., M.A. Adel. Lectr.  
 Bull, M. A. Pt-time Asst. Lectr.

*Music*

Bradshaw, J. C., Mus.D. Manc.,  
 F.R.C.O., L.R.A.M., A.R.C.M.  
 (Dean) Lectr.  
 Black, Jane L., Mus B. Asst. Lectr.

*Philosophy, Mental and Moral*

Salmond, C. F., M.A. Prof.  
 Morrison, Eliz. A., M.A.  
 Asst. Lectr.

*Physics*

Farr, C. C., D.Sc. Adel., F.R.S.  
 Macleod, D. B., M.A., D.Sc.  
 Lectr.  
 1 Student Asst.

*Engineering**Civil*

Cull, J. E. L., B.Sc. Eng. Prof.  
 Lecturers :  
 Calvert, G. G., M.I Struct.E.,  
 M.N.Z.S.C.E.  
 Robinson, W. F. (Surveying, etc.).  
 3 Student Assts.

*Electrical*

Powell, P. H., M.Sc. Manc., M.Eng.  
 Liv., M.I.E.E. Prof.  
 Pollard, T. R. Lectr.  
 Hayman, I., B.E. Demr.  
 1 Student Asst.

*Mechanical*

Steele, S., B.Sc. Mech Eng (Dean  
 Fac. Engin ) Prof.  
 Morrison, A. F., M.N.Z.S.C.E.  
 Lectr.  
 Rastrick, R. J. W., B.E Mech.Eng.  
 Lectr.  
 Bamford, P. G., B.E. Testing Engr.  
 Hutcheson, D. W. D. Demr.  
 3 Student Assts.

*Adult Education*

Director : Prof. J. Shelley, M.A.  
 Camb.  
 Staff-Tutor (W.E.A.) : Johnson,  
 J., M.A.

## GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Value of lands, buildings, equipment, etc., over £1,015,000, including £507,376 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs. Annual Govt. subsidies and grants, £7347 for College. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. LABORATORIES : Biol., Chem., Engin., Phys., Educational Psychology, Forestry.

DEGREE COURSES in Arts, Science, Mus., Com., Forestry Science, and Engin., and Certif. or Diploma courses in Journalism, Education, Forestry, Banking, Fine Arts, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 5 gs. ; Laboratory Research, 8 gs. ; Law and Commerce subjects, 2 to 4 gs.

RESIDENCE. Hostels for men (79) and women (93) students.

SCHOLARSHIPS include one of £50 for one yr., open to students in their 3rd

yr. ; one of £50 annually, tenable for 3 yrs., to entrants ; one of £50 for 2 yrs. for students not yet eligible for final section of B.A. ; 4 of £50 for 3 yrs. for residents in the four Univ. districts of N.Z. ; one of £85 for 4 yrs. to a pupil of Nelson Boys' Coll. for the B.Sc. and M.Sc. degrees ; 2 of £25 or £45 for 3 yrs. ; one of £50 for research in Science, open to graduates, renewable up to 3 yrs. ; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England ; one of £150 in Engineering, open to B.E., tenable outside N.Z. ; one (Hartley) for women graduates, offered every third year, £300 p.a. for 3 yrs. tenable ordinarily at Oxford, Cambridge, or London. There is a Students' Loan Fund of £700.

PUBLICATIONS. *Calendar* and *Commemoration Day Address* in March. Annual Statement of the Chairman in June. *Canta*, 8 issues a year, subscription 2s. 6d. *Review*, annual in Oct. *Annual Report, Trans. of Coll. Engineering Soc.*, 2s. 6d.

## THE YEAR 1931

BENEFACTIONS. £100 from the Canterbury Ch. of Comm., and books or equipment from the following : The Carnegie Corporation, N.Y. ; The Gifford Trust ; Estate late Mr. T. Cane ; Mrs. J. H. Alabaster ; Rev. H. Northcote ; Mr. J. H. E. Schroder ; Misses Neave ; Mrs. E. Rosa Sawtell ; John Chambers & Sons, Ltd. ; Sir Arthur Dudley Dobson ; Blackwells Motors, Ltd. ; Dr. R. S. Allan ; Mrs Hastings Bridge ; Messrs. George Kent of London ; Messrs. Grenfield & Kennedy of England.

NEW DEPARTMENTS AND POSTS. Dominion School of Forestry, Lectureship in Entomology (with Lincoln Coll.).

EXTRA-MURAL WORK. Extension work—Carnegie Corporation.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. Coffman, President, Univ. of Minnesota, on behalf of the Carnegie Corporation.

STUDENTS. 1931 : full-time, 462 ; part-time, 739 ; total, 1201, including 84 graduates.

DEGREES OBTAINED. M.A., 32 ; M.Sc., 7 ; M.Com., 1 ; B.A., 40 ; B.Sc., 9 ; LL.B., 11 ; B.For.Sc., 2 ; B.E., 10 ; Dip. in Edn., 10 ; Dip. in Soc. Sci., 1 ; Dip. in Journalism, 2 ; Dip. in Fine Arts, 7.

# AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—HON. SIR G. FOWLDS, C.B.E.

VICE-PRESIDENT OF COUNCIL—KENNETH MACKENZIE, M.D., M.Ch., F.R.C.S.

REGISTRAR—M. R. O'SHEA, B.Com.

LIBRARIAN—ALICE E. MINCHIN, B.A.

## PROFESSORS, LECTURERS, ETC.

<i>Accounting, etc.</i>	
Holt, L. W., M.Com.	
Lectr ( <i>in Charge</i> ).	
<i>Architecture</i>	
Knight, C. R., B.Arch., M.A.	
Liv., A.R.I.B.A.	Prof.
Crookes, S. I.	Lectr.
Chisholm, A. M., A.R.I.B.A.	Lectr.
Turkington, Jas.	(Art) Lectr.
<i>Biology</i>	
.....	Prof.
Lancaster, T. L., M.Sc.	Lectr.
McGregor, W. R.	Lectr.
<i>Chemistry</i>	
Worley, F. P., D.Sc. Lond., M.A., M.Sc., D.I.C., F.C.S.	
(on leave) Prof.	
Robinson, R. A., M.Sc., Ph.D.	
Birm., A.I.C.	Lectr.-Demr.
.....	Lectr.-Demr.
<i>Classics</i>	
Paterson, A. C., M.A. Edin. & Ox.	[Prof.]
Blaiklock, E. M., M.A.	
Asst. Lectr.	
<i>Dental Mechanics</i>	
Craddock, F. M.	Lectr.
Gleeson, H. L.	Demr.
<i>Economics</i>	
Belshaw, H., Ph.D. Camb., M.A.	[Prof.]
Rodwell, H. R., M.A.	Asst. Lectr.
Stephens, F. R., B.A., B.Com.	
Tutor & Research Asst.	
<i>Education</i>	
Fitt, A. B., Ph.D. Leip., M.A.	[Prof.]
Rae, D. M., M.A.	Lectr.
Thompson, A. B., M.A., Dip. Ed.	
Asst. Lectr.	
<i>Engineering</i>	
Lamb, S. E., B.Sc. Lond., A.R.C.S.	
Eng. (Applied Mechanics, etc.)	Director, Prof.
Dawson, C. (Elec. E., etc.)	Lectr.
Bell, G. B., B.E., B.Sc.	
(Civil E.)	Lectr.
McLaren, E. J. R.	
Demr. & Asst. Lectr.	
i Workshop Instructor.	
<i>English</i>	
Egerton, C. W., M.A. Dub.	Prof.
Ardern, P. S., B.A. Ox., M.A.	
Asst. Lectr.	
<i>Geology</i>	
Bartrum, J. A., M.Sc., A.O.S.M.	[Prof.]
<i>Hebrew</i>	
Paterson, A. C., M.A. Ox.	Prof.
<i>History</i>	
.....	Prof.
Airey, W. T. G., M.A.	Lectr.
<i>Journahsm</i>	
Mulgan, A. E.	Lectr.
<i>Law</i>	
Algie, R. M., LL.M.	Prof.
Munro, L. K., LL.M.	Asst. Lectr.
Hogben, J. M., LL.B.	Asst. Lectr.
Goodall, S. I., LL.M.	Asst. Lectr.

Goulding, A. M., LL.B. Asst. Lectr.  
Tuck, W. R., LL.M. Asst. Lectr.

*Mathematics*

Segar, H. W., M.A. Camb. Prof.  
Mawson, D. G., M.Sc. Asst. Lectr.

*Modern Languages*

Walker, M., M.A., B.Com. Prof.  
Miller, Dora L., M.A., Cert. Assn.  
Phon. Internat. (Paris)  
Asst. Lectr.

*Music*

Thomas, W. E., Mus.D. Ox. Prof.

*Philosophy*

Anderson, W., M.A. Glas. Prof.

Anschutz, R. P., M.A. Lectr.

*Physics*

Burbidge, P. W., B.A. Camb.,  
M.Sc. Prof.  
Brown, D., D.Sc. Lectr. & Demr.  
Sagar, F. H., M.Sc. Lectr. & Demr.

*Adult Education*

Of 8 Tutors assisting the Director  
appointed by the W.E.A.  
(Richmond, N. M., B.A.), 2  
are members of the College  
staff. Asst. Tutor Organizer:  
Shearer, J. O., M.A.

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit.), Law, Music, Commerce, and Associate of the College in Engineering (3 yrs.).

CLASS FEES. Arts subjects, usually £3 : 3s. to £5 : 5s. Science, £5 : 5s. to £8 : 8s. Law, £2 : 2s. to £3 : 3s. per subject.

PUBLICATION. *Calendar* (Feb.).

## THE YEARS 1931, 1932

STUDENTS. Full-time: total, 427, including 20 graduates. Part-time: total, 741, including 69 graduates. 116 were unmatriculated.

DEGREES OBTAINED. B.A., 52; M.A., 27; B.Sc., 12; M.Sc., 4; LL.B., 16; LL.M., 1; B.Com., 7; Dip. Education, 2; Dip. Social Sc., 1; Dip. Journalism, 7.

# VICTORIA UNIVERSITY COLLEGE, WELLINGTON

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P. LEVI, M.A.

REGISTRAR—G. G. S. ROBISON, M.A.

LIBRARIAN—H. G. MILLER, M.A.

## PROFESSORS, LECTURERS, ETC.

- |   |                      |   |                |
|---|----------------------|---|----------------|
| <i>Biology</i>                                    |                      | <i>Law, Roman, etc.</i>   |                |
| Kirk, H. B., M.A.                                 | Prof.                | Adamson, J., M.A., LL.B. Edin.  |                |
| Pigott, Ellen, M.A. (Bot.)                        |                      |   | Dean and Prof. |
|   | Lectr. & Demr.       | Hain, C. H., LL.B. (Jurispr.)   |                |
| Lysaght, Averil, M.Sc. (Zool)                     |                      |   | Asst Lectr.    |
|   | Temp. Lectr. & Demr. | Scott, C. E., LL.M. (Jurispr. and Internat. L.)   | Asst. Lectr.   |
| <i>Chemistry</i>                                  |                      | <i>Mathematics</i>  |                |
| Robertson, P. W., M.A. Ox., Ph.D. Leip., M.Sc.    | Prof.                | Sommerville, D. M. Y., M.A., D.Sc.  |                |
| Monro, A. D., M.Sc.                               | Lectr.               | St. And.  | Prof.          |
| i Demr.   |                      | Miles, F. F., M.A. Ox. and N.Z.   |                |
| <i>Classics</i>                                   |                      |   | Lectr.         |
| Brown, J. R., M.A. Ox. & St. And., LL.D. St. And. | Prof.                | <i>Modern Languages</i>   |                |
| Elliott, J. R., B.A. Syd. and Camb.               | Lectr.               | Boyd-Wilson, E. J., B.A. Camb., M.A., B.Sc.   | Prof.          |
| <i>Economics</i>                                  |                      | Henning, I. A., D. de l'U. Paris, B.A. Syd.   | Lectr.         |
| Murphy, B. E., M.A., B.Com., LL.B. (Dean)         | Prof.                | <i>Philosophy, Mental and Moral</i>   |                |
| Heine, Hilda G., Ph.D Berl., M.A.                 | Lectr.               | Hunter, T. A., M.A., M.Sc.  | Prof.          |
| <i>Education</i>                                  |                      | Sutherland, I. L. G., Ph.D. Glas., M.A.   | Lectr.         |
| Gould, W. H., M.A.                                | Prof.                | <i>Physics</i>  |                |
| Campbell, A. E., M.A. Asst. Lectr.                |                      | Florance, D. C. H., M.A., M.Sc.   | [Prof.]        |
| <i>English Language &amp; Lit.</i>                |                      | Peddie, G. A., M.Sc.  | Lectr.         |
| Mackenzie, H., M.A. St. And.                      |                      |   |                |
| Cochran, A. B., B.A. Ox., M.A.                    | Lectr.               | <i>Adult Education</i>  |                |
| <i>Geology</i>                                    |                      | Of the Tutors who conduct one-year classes under joint committee of W.E.A. and College, 4 are members of College staff. |                |
| Cotton, C. A., D.Sc., F.G.S.                      | Prof.                | Director, I. L. G. Sutherland, M.A., Ph.D.  |                |
| King, L. C., M.Sc.                                | Asst. Lectr.         |   |                |
| <i>History</i>                                    |                      | Tutor Organizer :   |                |
| Wilson, F. P., M.A.                               | Prof.                | J. A. Brailsford, B.A.  |                |
| Ellis, Muriel, M.A.                               | Asst. Lectr.         |   |                |
| <i>Law, English and N.Z.</i>                      |                      |   |                |
| Cornish, H. H., M.A., LL.M.                       | Prof.                |   |                |

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921-22 at a cost of £50,000. Annual grants about £14,000.

Full DEGREE COURSES are provided in Arts, Science, Law, and Commerce, and the earlier stages in other Faculties.

CLASS FEES range between 3 and 5 guineas per annum for each subject.

RESEARCH SCHOLARSHIP. J. Joseph, two scholarships of £60 for 1 yr. for original work.

HOSTEL for 41 women students conducted (on definitely Christian lines) by W.S. Hostel Society.

PUBLICATIONS. *Calendar* (Feb.); Students' Magazine published towards end of each term.

## THE YEARS 1931, 1932

NEW BUILDINGS. "Weir Hostel" for men students will be available for reception of 90 students at the beginning of 1933.

OTHER DEVELOPMENTS. The Sarah Anne Rhodes Research Scholarships have been terminated. The funds are now applied to Sarah Anne Rhodes Travelling Fellowships and Sarah Anne Rhodes Lecturing Fellowships for women students in Home Science.

EXTRA-MURAL WORK. There were 283 exempted students in 1931 and 314 exempted students in 1932.

DEATH. F. G. Maskell, B.A., M.Sc., Ph.D. (Zool.), died Jan. 1932.

STUDENTS, 1931. Full-time, 221, including 24 graduates; part-time, 592, including 34 graduates. 1932. Full-time, 229, including 11 graduates; part-time, 591, including 53 graduates.

DEGREES OBTAINED (1931 examns.). M.A., 28; B.A., 46; M.Sc., 10; B.Sc. 23; LL.M., 7; LL.B., 13; M.Com., 1; B.Com., 14; Diplomas of Education, 9; Diploma in Journalism, 1; Diploma in Social Science, 1.

# CANTERBURY AGRICULTURAL COLLEGE, LINCOLN

DIRECTOR—Prof. R. E. ALEXANDER, A R.C.Sc I.

<i>Agriculture</i>		<i>Entomology</i>	
The Director	Lectr.	Morrison, L., B.Sc. Aberd.	Lectr.
<i>Agr. Chemistry</i>		<i>Field Husbandry</i>	
Scott, M. J., B.A. Camb., B.Sc., A.I.C.	Lectr.	Geddes, H. J., M.Sc.	Lectr.
Sidey, D. J., B.Ag., H.D.D.	Asst.	<i>Veterinary Science</i>	
Franklin, M.C., M.Sc., A.I.C.	Asst.	Leslie, A., F.R.C.V.S	Lectr.
<i>Agr. Economics</i>		<i>Research Staff</i>	
Weston, I. W., D.Ph.	Lectr.	<i>Animal Nutrition</i> —M. J. Scott ; D. J. Sidey.	
<i>Biology</i>		<i>Entomology</i> —L. Morrison.	
Hilgendorf, Prof. F. W., M.A., D.Sc., F.N.Z. Inst.	Lectr.	<i>Farm Costing</i> —I. W. Weston, Ph.D.	
Calder, J. W., M.Sc., B.Ag.	Asst.	<i>Plant Breeding</i> —Prof. F. W. Hilgendorf ; J. W. Calder ; O. H. Frankel, D.Agr.	
<i>Engin. and Surveying</i>			
James, R. L., B.Sc., A.A.S.E. (Civ.)	Lectr.		

## GENERAL INFORMATION

Canterbury Agricultural College, Lincoln, was established by the Canterbury College and Canterbury Agricultural College Act, 1896, which placed the School of Agriculture founded by Canterbury College under an entirely separate management. The new Board of Governors came into office on Jan. 1, 1897. A series of amending Acts were passed between 1922 and 1927, and under that passed in the last-named year Canterbury Agricultural College is deemed a part of Canterbury College as regards requirements for degrees.

LABORATORIES. Biology, Chemistry. The Wheat Research Institute (v. App. XXIV. p. 850). LIBRARY.

STUDENTS (1932). Full-time, 62, including 1 graduate.

DEGREES OBTAINED (1932). B.Agr.Sc., 8,



# MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH

PRINCIPAL—G. S. PEREN, C.G., B.S.A. Tor.

<i>Agr. Zoology</i>		<i>Poultry</i>	
Dry, F. W., D.Sc. Leeds	Lectr.	Kissling, J. H.	Lectr.
<i>Bacteriol. and Mycology</i>		<i>Soil Chemistry</i>	
Waters, R.	Lectr.	Scrivener, F. L. C., B.Sc. (Agr.) Lond.	Lectr.
<i>Botany</i>		<i>Veterinary Science</i>	
Yeates, J. S., M.Sc., Ph.D.	Lectr.	McLinden, J. M., M.R.C.V.S., N.D.A.	Lectr.
<i>Dairy Bacteriol.</i>		<b>Research Staff</b>	
Whitehead, H. R., D.Sc. Leeds, A.I.C.	Lectr.	<i>Dairy Research Institute (N.Z.)</i>	
<i>Dairy Chemistry</i>		Director—Prof. W. Riddet.	
McDowall, F. H., D.Sc. Lond., M.Sc., A.I.C.	Lectr.	McDowall, F. H., D.Sc. Lond., M.Sc., A.I.C. Chemist.	
Sutton, W. G., M.Sc. Asst	Lectr.	Dolby, R. M., M.Sc., Ph.D. Lond., A.I.C. Asst. Chemist.	
<i>Dairying</i>		Whelan, L. A., B.Sc. Asst. Chemist.	
Riddet, W., B.Sc. (Agr.) Glas., N.D.A., N.D.D.		Whitehead, H. R., D.Sc. Leeds, A.I.C. Bacteriologist.	
Logan Campbell Prof. of Agric.		Cox, G. A., M.Sc. Asst. Bacteriologist.	
McMeekan, C. P., B.Agr.Sc.	Asst. Lectr.	Valentine, G. M. Factory Manager.	
<i>Butter and Cheesemaking</i>		<i>Flax (Phormium tenax)</i>	
Valentine, G. M.	Lectr.	Yeates, J. S., M.Sc., Ph.D. Botanist.	
<i>Economics</i>		<i>Plant Breeding</i>	
Williams, D. O., M.A.	Lectr.	Jacques, W. A., B.Sc. Wales, N.D.A. Agristologist.	
<i>Field Husbandry and Sheep Management</i>		<i>Wool</i>	
The Principal		The Principal	
Walter Clarke Buchanan		Director.	
Prof. of Agric.		Dry, F. W., D.Sc. Leeds	
Dossor, R. (Sheep Management)		Biologist.	
Asst. Lectr.		Waters, R. Micro-biologist.	

## GENERAL INFORMATION

The College was establd. under the New Zealand Agricultural College Act in Sept. 1926 as the result of an agreement between Victoria Univ. Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective Schools of Agric. and to establish the new Coll. in the Palmerston North-Merton area. On July 29, 1927, an amending statute, the Massey Agricultural College Act, was

passed, and the Coll. finally establd. under its present title and constitution. It is therefore "a College in connexion with the Univ. of New Zealand," and it is "deemed part of the Victoria Univ. Coll. and of the Auckland Univ. Coll."

The College Buildings consist of the Main Building, containing lecture rooms, teaching and research laboratories, library, assembly hall, studies, common rooms, etc.; the Administration Building; the Refectory and the Students' Residence.

The Coll. includes a modern dairy factory, erected in 1928, with separate rooms for all dairy processes, etc., and equipped with small units of the latest designs of dairy factory machinery. The farm is c. 865 acres in extent, with a wide range of soil types and is devoted to sheep and dairy farming. There is also a nursery establishment for plant breeding and selection, and another devoted to research on *Phormium tenax* (N.Z. hemp).

DEGREE COURSES, etc. Courses are given for the B.Agr.Sc. and M.Agr.Sc., of the Univ. of N.Z. College Diploma courses in Dairy Farming, Sheep Farming, Poultry Farming, and Dairy Manufactures, the latter carrying the title of Associate of the Coll. There are also courses in Herd Testing and Wool Classing.

RESEARCH. The College is the major centre for research in wool problems and the improvement of *Phormium tenax* (N.Z. hemp). The Dairy Research Institute (N.Z.) is located at the Coll (v. App. XXIV. p. 851).

FEEs. Interm, B.Agr.Sc., £21; B.Agr.Sc., £62:10s.; M.Agr.Sc. and Hons. in Agric., £10:10s.; Farming Courses (including board), £52:10s. per annum; Dairy Manufactures, £7:10s. per term; Herd Testing, £2:10s.; Wool Classing, £1:10s.

SCHOLARSHIPS. Various Govt. and Univ. Scholps. are open to students.

## THE YEARS 1931, 1932

NEW BUILDINGS. Main Building, Administration Bldg., Refectory and Students' Residence.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVS. Principal visited Sydney and Melbourne Univs. and University of Adelaide in June 1931.

STUDENTS. Full-time: total, 70, including 7 graduates. Part-time: total, 113.

DEGREES OBTAINED. B.Agr.Sc., 5; M.Agr.Sc., 2.

# UNIVERSITIES OF THE UNION OF SOUTH AFRICA

CAPE TOWN

SOUTH AFRICA, PRETORIA

PRETORIA

STELLENBOSCH

THE WITWATERSRAND, JOHANNESBURG

**HISTORICAL SUMMARY** (originally contributed by Professor Ritchie of Cape Town and revised by Sir Carruthers Beattie, Vice-Chancellor of the University of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matric., B.A., and M.A. The competition between the existing Colleges caused by these exams. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good

Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its exams., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its exams. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year a School of Mines which had been founded in 1896 at Kimberley was transferred to Johannesburg, and afterwards developed into a College for higher education generally, which is now the University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed

the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest Colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect :

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch were specified originally as—Arts, Science, Education, Agric., Law, Theology, Commerce; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education, to which have been added subsequently Commerce, Music, Fine Art (and Architecture). Of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. The three University Acts referred to above also made provision for the establishment of a Joint Matriculation Board and a Joint Committee for Professional Examinations, the functions of which are indicated below.

In 1922 the teaching institution at Potchefstroom was admitted as a constituent College of the University of South Africa under the name of the Potchefstroom University College.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as "The University of the Witwatersrand, Johannesburg," the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent Colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce, and Dentistry.

In 1923 the South African Native College at Fort Hare, established primarily for the benefit of the native races of South Africa, was incorporated under the Higher Education Act of 1923.

In 1930 Parliament passed an Act incorporating the Transvaal University College, Pretoria, as "The University of Pretoria" as from 10th October 1930. Its faculties are specified as Arts, Science, Agriculture, Law, Theology, Commerce and Public Administration, Veterinary Science, Education, Music.

Each of the five Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, Pretoria, and Cape Town consist in each case of the Principal or Rector, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period, and the Professors. At the Univ. of the Witwatersrand two Assessor members are elected annually by the Lecturers.

A word may be said here about these five Universities in general. The single college Universities and the individual University colleges are rapidly differentiating, some into institutions predominantly English speaking and others predominantly Afrikaans speaking. Every institution does what it can to advance the knowledge of the second language, Afrikaans or English as the case may be, and on the whole the Universities are helping the spread of bilingualism.

There are two Faculties of Medicine, one in Cape Town, the other in Johannesburg; three of Engineering, in Cape Town, Johannesburg, and Durban; two of Agriculture, at Pretoria and Stellenbosch; at Pretoria there is also a Veterinary Science course, and at Stellenbosch in 1932 a Forestry course was started; there are theological faculties at Stellenbosch and Pretoria.

The training of secondary teachers has been left to the Universities, and all the institutions endeavour to carry out this training. The training of primary teachers is to a much smaller extent provided for in the Universities, the main work in this instance being carried on in training colleges.

Legal and commercial training is given in all the Universities, so is the teaching of the subjects usual in a Science and in an Arts Faculty.

Schools of African Life and Languages have been established at four of the Universities, and a considerable amount of valuable work has been done.

The Universities and University Colleges have together over 6000 students almost entirely white. The coloured student is beginning to appear, but the native has so far found no place in South African Universities except as an external student. The South African Native College is not yet a constituent College of any of the Universities of South Africa, and students taught there take degrees externally.

**TERMS.** The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec. At Stellenbosch and the Witwatersrand there are two Semesters or terms, beginning end of Feb. and end of July.

**VICE-CHANCELLORS' COMMITTEE.** The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Exams., the administration of the Joint Scholarship Funds of the five Univs., the admission of registered students of any one of the Univs. to any of the

others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The committee met twice in 1932, and dealt among other things with post-graduate scholarships awards, regulations for certain prize essays, and the nomination of South African candidates for Carnegie Corporation grants made by the Universities Bureau of the British Empire. The address of the Secretary (who is also Registrar, Univ. of Cape Town) is P.O. Box 594, Cape Town.

**CONFERENCE** Representatives of the Univs and Univ Colleges in South Africa met for the first time in conference in Cape Town in 1923 to discuss matters of common interest and to promote co-operation and mutual consultation. Similar meetings have since been held from time to time. Two conferences were summoned by the Minister of Education in 1931 and 1932 to consider respectively the Financial Control of the Universities and the questions of bilingual instruction and external degrees.

The **JOINT MATRICULATION BOARD** consists of representatives of the five Univs., the Provincial and Union Departments of Education, and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the five Univs., and to deal with all applications for exemption therefrom. Revised Regulations introduced Dec 1931 require candidates to take : (i.) One of the official langs (Higher Grade) ; (ii) Latin or Greek or French or German, or the second official lang. (Higher or Ordinary Grade) , (iii.) a Science subject or Maths ; (iv) a subject chosen from (ii.) not already taken, or Maths. (if not taken under (iii) , or Italian or Portuguese, or Spanish, or Hebrew, or Xosa, or Zulu, or Chwana, or Suto ; (v) and (vi) any two subjects (not already taken) selected from the prescribed list of approved subjects. School-leaving certificates are also issued by the Board, the syllabuses and examn. papers being the same as for the matricn. examn., with a wider choice of subjects.

*Examinations exempting (i) wholly, or (ii.) subject for subject, from the matriculation examination of the South African Univs :* (i) Entrance examns. of Univs. recognized by the Joint Board, St. Andrews L.L.A., Teachers' First Class Certificate (S. Africa), Technische Hoogeschool of Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certif. (in or after 1921), Cape Province Senior Certif. (in or after 1923), National Senior Certif. of the Union Education Dept. (after 1931).

(ii.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any Univ. recognized by the Board, Senior Certificate of the Univ. of the Cape of Good Hope or School-leaving Certificate of the Board, Second Class Teachers' Certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of " École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts-Prüfung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, any

British Higher School Certificate, or School Certificate *with credit*. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Candidates over the age of 25 who desire to proceed to a degree course or to some professional qualification and are not eligible for exemption under the ordinary regulations may, under certain conditions, be specially exempted from matricn. on the recommendation of the Univ. or other authority concerned.

The address of the Secretary (who is also Registrar of the Univ. of S.A.) is P.O. Box 392, Pretoria.

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria), consisting of 2 representatives of each of the 5 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Law Certificate Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveying, and (4) Final Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.

The NATIONAL UNION OF SOUTH AFRICAN STUDENTS was formed in July 1924. Its members consist of students from every Univ. and Coll., and its main practical achievements are the annual Students' Parliament, the annual Student Overseas Tours, publication of Magazine, and the relationship of student interest in National and International problems. Since its inception some 700 students have visited various countries in Europe and America on tour, and 3 parties of overseas students have toured South Africa.

From December 1932 to March 1933 one party of N.U.S.A.S. Tourists visited America and Canada, another visited Europe, and a third visited the Near East and Europe, encircling Africa for the first time on an organized student tour.

*President*: D. Marquard, 62 Scott Street, Bloemfontein; *Secretary*: D. G. Malan, c/o Prof. D. G. Malan, Die Kweekskool, Stellenbosch; *Hon. Sec. Travel Dept.*: A. Lewin, 148 St. George's Street, Cape Town.



# UNIVERSITY OF CAPE TOWN

WITH WHICH IS INCORPORATED THE  
SOUTH AFRICAN COLLEGE

*Postal address*—P.O. Box 594, Cape Town. *Telegrams*—University, Rosebank.

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Galbraith, H. G., B.A. Camb.,  
C.A. Edin. Prof.  
Small, L. Lectr.

*African Life and Languages*  
Barnard, T. T., M.A. Ox., Ph.D.  
Camb.  
(Social Anthropol.) Prof.  
Beach, D. M., B.A. Harv., Ph.D.  
Lond. (Phonetics) Prof.  
Goodwin, A. J. H., M.A. Camb.  
(Soc. Anthropol.) Sr.  
Lectr.

Bleek, Miss D. F. (Bushman  
Langs.) Hon. Reader.  
Bennie, W. G., B.A.  
(Bantu Langs.) Reader.  
Schapera, I., M.A., Ph.D. Lond.  
Asst.

*Anatomy*  
Drennan, M. R., M.A., M.B., Ch.B.  
Edin., F.R.C.S. Edin. Prof.  
Haines, R. W., M.B., B.Sc. Lond.,  
M.R.C.S., L.R.C.P.  
Asst. Anatomist.

Gordon, W. L., O.B.E., M.D.,  
F.R.C.S. Edin. (Applied Surg.  
A.) Lectr.  
1 Technical Asst.

*Bacteriology*  
Campbell, W., M.B., Ch.B., B.Sc.  
Wernher and Beit Prof.  
Greenfield, Miss E. C., M.B., Ch.B.  
Asst.  
Judd, Miss M. H., B.Sc.  
Junr. Lectr.  
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Harold Pearson Prof.,  
Dir. of National Bot.  
Gardens.  
Adamson, R. S., M.A. Camb., B.Sc.  
Edin. Harry Bolus Prof.  
Stephens, Miss E. L., B.A., F.L.S.  
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Curator of Bolus Herbarium.  
..... Demr.

*Chemistry*

- Tietz, H., Ph.D. Berl., M.A. (Organic C.) Prof.  
 Thomas, J. Smeath, D.Sc. Liv. (Inorganic C.) Prof.  
 Newbery, E., D.Sc. Manc., F.I.C. (Phys. C) O'Malley Prof.  
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 Cohen, I. N., B.Sc. Junr. Lectr.  
 Simpson, T. M., M.Sc. Demr.  
 Fear, Miss C. M., B.Sc. Brist. Demr.  
 Cairns, C. J., B.Sc. Demr.  
 1 Tech. Asst.

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 le Roux, T., Litt.D. Amst., M.A. (Gk.) Prof.  
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 Charles, A. G., B.Sc. (Econ.) Lond. Senr. Lectr.

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*Education*

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 Scrimgeour, A. C. S., M.A. Edin. (Method) Prof.

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 Viljoen, Mrs. A. M., M.A.  
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 Marais, Miss M. J., B.A.  
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 (Irrigation and Water Supply) Reader.  
 Van der Sterr, W. C. (Surveying) Lectr.

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 Brooks, J. J., A.R.C.S. Lectr.  
 Sacks, E. Asst.

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 Cavers, Miss D. L., B.Litt. Ox., M.A., B.Ed. Junr. Lectr.

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 Thatcher, P. Asst. and Keeper.  
 Gregory, W. J. H., A.R.I.B.A. (Architecture) Lectr.  
 Mansergh, B. G. L., A.R.I.B.A. (Architecture) Lectr.  
 18 Assts.

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Nancy Prof.  
..... Asst

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Bodmer, F., Ph.D. Zurich Lectr.

*Hebrew*

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King Geo. V. Prof.  
Mandelbrote, H. J., B.A. Ox.,  
M.A., LL.B. Sr. Lectr.  
Marais, J. S., D.Phil. Ox., M.A.  
Sr. Lectr.

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[Prof]  
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Wylie, J. K., M.A., LL.B., D.Litt.  
Edin., LL.B. Lond., LL.M.  
S. Afr.

(Rom. L.) W. P. Schreiner  
Prof.

Emmett, E., M.A., LL.B. Manc.  
Prof.

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Clouts, P. M., LL.B. Camb., B.A.  
De Villiers, J. E., B.A., B.C.L.  
Ox., B.A. Cape, LL.B. S.Afr.  
Thompson, C. N., B.A., LL.B.  
Camb., M.A.

*Logic and Psychology*

[Prof]  
Reyburn, H., D.Phil. Glas., M.A.  
Eales, W. C., M.A. S. Afr., B.A.  
Sr. Lectr.  
Taylor, J. G., M.A. Aberd.  
Sr. Lectr.  
Thompson, Miss E. M., B.A. S. Afr.  
Lectr.

*Mathematics, Pure*

Crawford, L., M.A. Camb., D.Sc.  
Glas. Prof.  
Skewes, S., B.A. Camb., B.Sc.,  
M.A. Sr. Lectr.  
Wylie, Mrs. G. M. Kerr, M.A. S.  
Afr., B.A., Dip. Actuarial Sci.  
Edin. Lectr.

*Mathematics, Applied*

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B.Sc. Edin. Prof.  
Pollard, M. J., M.A. Camb., B.Sc.  
Wales Sr. Lectr.  
Deelman, F. P. S., B.Sc. Demr.

*Mineralogy and Geology*

Young, A., M.A., D.Sc. Edin.,  
F.G.S. Philipson-Stow Prof.  
Walker, A. R. E., B.Sc. Lond.,  
A.R.C.S. Lond. Sr. Lectr.

*Music*

[Prof]  
Bell, W. H., F.R.A.M., F.R.C.M.  
Roberts, Miss H., L.R.A.M.  
(Educational Music) Lectr.  
Peppers, Miss R., L.R.A.M., Dip.  
Dram Art. Lond.  
(Speech - training and  
Elocution) Lectr.

22 other staff.

*Nederlands en Afrikaans*

Bosman, D. B., Ph.D. Groningen,  
M.A. (Lang.) Hofmeyer Prof.  
van der Merwe, I. W., M.A. Lectr.  
Bosman, F. C. L., Litt.D. Amst.,  
M.A. Lectr.  
du Plessis, I. D., M.A. Lectr.

*Philosophy, v. Logic and Psychology, and Ethics**Physics*

Ogg, A., M.A., B.Sc. Aberd., Ph.D.  
Gött. Prof.  
Schonland, B. F. J., O.B.E., M.A.,  
Ph.D. Camb. Sr. Lectr.  
Naude, S. M., M.Sc. Stell., Ph.D.  
Berlin Lectr.  
Grundley, E. N., M.Sc. Brist.,  
Ph.D. Lectr.

4 Demrs.

2 Tech. Assts.

*Physiology*

Jolly, W. A., M.B., Ch.B., D.Sc.,  
LL.D. Edin. Prof.  
Bosman, L. P., B.Sc., Ph.D. Edin.,  
B.A. Sr. Lectr.  
Zwarenstein, H. J., M.A., B.Sc.,  
Ph.D. Sr. Lectr.  
2 Tech. Assts.

*Politics*, v. Ethics

*Zoology*

Stephenson, T. A., D.Sc. Wales  
 Prof.  
 Zoond, A., M.Sc. McGill, B.Sc.  
 (Agr.) Br. Col., Ph.D. Lectr.  
 2 Demrs.

**Medicine**

(for subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Anæsthetics*

Forbes, A. Gordon, M.B., Ch.B.  
 Edin. Lectr.  
 Muir, R. M., M.B., Ch.B. Edin.  
 Lectr.  
 Berelowitz, H., M.B., Ch.B.  
 Clin. Instr.

*Dermatology*

Bosman, H. M., M.R.C.S., L.R.C.P. [Lectr.]

*Diseases of Children* [Lectr.]

Leipoldt, C. L., L.R.C.P., F.R.C.S.

*Ear, Nose, and Throat*

Luckhoff, J., M.D. Edin. Lectr.

*Gynæcology*, v. Obstetrics and  
 Gyn.

*Infectious Diseases* [Lectr.]

Wicht, J. F., M.D. Dub., D.P.H.

*Med. Jurisprudence*

Rhodes, W. F., B.A., M.R.C.S.,  
 L.R.C.P., D.P.H. Lectr.  
 Louw, A., M.B., Ch.B. Edin. Lectr.

**Medicine**

Falconer, A. W., C.B.E., D.S.O.,  
 M.D. Aberd., M.R.C.P. Prof.  
 Forman, F., M.B., Ch.B. Aberd.,  
 B.A. Asst.

*Medicine, Clinical*

Marais, D. P., M.D., F.R.C.P.  
 Edin. Lectr.  
 Silberbauer, S. F., M.D., F.R.C.P.  
 Edin. Lectr.

*Medicine, Psychological* [Lectr.]

Swift, E. W. D., M.B. Lond.

Kooy, F. H., M.D. Gron., M.R.C.S.,  
 L.R.C.P. Lectr.

*Obstetrics and Gynæcology*

Crichton, E. C., B.A., M.D.,  
 B.A.O., B.Ch., L.M. Dub. Prof.

*Gynæcology, Clinical*

Wessels, D. H. Lectr.

*Obstetrics, Clinical*

Wells, A. Simpson, M.A., M.D.  
 Glas., F.R.C.S. Edin. Lectr.

Tutors:

Charnock, F. S., M.B., Ch.B.  
 Manc., M.R.C.S., L.R.C.P.  
 Sharp, C. W. C., L.R.C.P.,  
 F.R.C.S. Edin., L.F.P.S. Glas.

*Ophthalmology*

Wood, D. J., M.B., C.M. Edin. [Lectr.]

*Orthopædics*

Moll, P. de V. Lectr.

*Pathology*

Ryne, B. J., M.B., Ch.B. Edin.  
 Wernher and Beit Prof.  
 Linder, G. C., M.D., M.R.C.P.  
 Sr. Lectr.

Cowie, Mrs. J. C. G., M.B., Ch.B.  
 Asst.

Turner, R., M.B., Ch.B. Asst.  
 1 Pt.-time Asst., 2 Tech. Assts.

*Pharmacology*

Gunn, J. W. C., M.A., M.B., Ch.B.  
 Edin. Wernher and Beit Prof.  
 Epstein, D., M.B., Ch.B., Ph.D.  
 Asst.

1 Tech. Asst.

*Public Health*

Higgins, T. S., M.D., B.S., B.Sc.  
 Lond., D.P.H. Camb. Lectr.

*Radiology*

Van Roojen, J., M.D. Amst.,  
 M.R.C.S., L.R.C.P., D.M.R.E.  
 Lectr.

*Surgery*

Saint, C. F. M., C.B.E., M.D., M.S.  
 Durh., F.R.C.S. Prof.  
 Rous, M. C., M.B., Ch.B. Tutor.  
 1 Pt.-time Lectr., 1 Tech. Asst.

*Surgery, Clinical*

Sandes, T. L., O.B.E., M.A., M.D.  
Dub., F.R.C.S. Eng. and Irel.

Lectr.

Goldschmidt, L. B.

Lectr.

McLachlan, A. R., F.R.C.S.,  
L.R.C.P.

Lectr.

*Vaccination*

Mackintosh, R. H., L.R.C.P. & S.  
Ed.

Lectr.

*Veneraeal Diseases*

O'Malley, C. K., M.C., M.B.,  
B.Ch., B.A.O., M.S. N.U.I.,  
D.M.R.E. Camb.

Lectr.

## GENERAL INFORMATION

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. (Sir) Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. For early history, see *Yearbook* for 1930.

A site for the University was provided by Government at Groote Schuur, Rondebosch. An appeal for funds in commemoration of the centenary of the S.A. College in 1929 realised over £70,000.

**LIBRARY**, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus **HERBARIUM** includes Guthrie Collection of Cape Flora. **MARINE BIOL. LABORATORY** at St. James'.

**FACULTIES**. Arts, Commerce, Science, Engineering, Law, Medicine, Education, Music, and Fine Arts.

**DEGREE COURSES**. B.A., 3 yrs.; B.A. (in Architecture), 5 yrs.; B.A. (in Fine Art), 4 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Sc. (in Surveying), 4 yrs.; B.Com., 3 yrs.; LL.B., 5 yrs.; B.Mus., 4 yrs.; M.B., Ch.B., 6 yrs. Higher degrees: M.A., 1 yr.; M.Sc., 1 yr.; M.Com., 1 yr.; B.Ed., 2 yrs. after B.A. The M.A., M.Sc., and M.Com. courses are open to graduates of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 4 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. after 2 yrs.' attendance; the LL.D. is open to LL.B. or LL.M.

**OTHER COURSES**. For Teachers' Certificate.—Secondary, Primary, Univ. Diploma in Commerce, in Architecture, in Music, in Fine Art, in Speech-training (Dramatic Art and Speech-training); Univ. post-graduate diploma in Public Health; Law Certif., Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere.

**RECOGNITION OF AND BY OTHER INSTITUTIONS**. Attendance in Stellenbosch and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. is accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.; examns. in the Faculty of Arts in these subjects are accepted by Aberd. The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

**FEES.** For tuition, including registration, excluding laboratory fees, annually: Arts or Sc., from £24 to £30; Engin., £36; Med., £40 (average); Law (LL.B.), £24 to £30, Law Certif., £11; Teaching, £24; Surv., £35; Commerce (B.Com.), £24; Architecture, £32; Fine Art, £32; Music, £25 to £40. Examin. and graduation fees, minimum: B Ed., B A., B.Sc., or B.Com., £13. 15s.; B.Sc. Engin. or Surveying, £23; B.A. Architecture, £23; B.A. Fine Art, £18; Mus.Bac., £12; LL.B., £30; M.B., Ch B., £30; Master's degree, £7; Doctor's, £13.

**SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV.** Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. or M.Sc. examns.; £150 p.a. for 2 yrs., awarded annually after the B.Sc. (Engin.) examn.; £150 for 1 yr., awarded annually after the final professional examn. for M.B., Ch.B. H. B. Webb Gift Research Scholp. of £160 p.a., tenable for three years, is available for award every three years to graduates of the University.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

**SCHOLARSHIP FOR BRITISH STUDENTS.** A Jagger Scholarship of the annual value of £200 tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town. There are two Jagger scholars in residence at the Univ.

**RESIDENCE.** Hostels for 300 men and 200 women. Board, laundry, and residence, £65-£70 p.a.

**PUBLICATIONS.** *Calendar* (Dec); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*; *The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols.; Maskew Miller, Cape Town); *The S.A. College and the University of Cape Town, 1829-1929*, by Prof. E. A. Walker.

## THE YEARS 1931, 1932

**NEW BUILDINGS.** The Jameson Memorial Hall, which is to complete the present scheme of main buildings for the Univ. at Groote Schuur is in course of erection, and is expected to be ready for occupation by the end of 1932.

**RESIGNATIONS.** Prof. R. D. Nauta (French), retired; J. C. Vogel (Chemistry); J. H. Ferguson (Bacteriol.); Miss M. Withycombe (Fine Art).

**DEATHS.** Sir D. P. deV. Graaff and Sir Max Machaelis, former members of Council; Mr. John Garlick, staunch friend and supporter of the Univ.; Prof. W. Ritchie (former Prof. of Classics); Prof. H. E. S. Fremantle (English and Philos. at the S.A. College); Mr. D. Campbell (Elec. Engin.); Mr. L. McConnell (Archit.).

**VISITING PROFESSORS.** Dr. A. J. Barnouw, Prof. of Nederlands and Middle English at the Univ. of Columbia, New York; and Dr. Robert H. Rife, Carnegie Visiting Professor, each gave a lecture at the Univ.

**STUDENTS (1931).** Full-time, 1461; part-time, 345.

**DEGREES (1931).** D.Litt., 1; D.Sc., 1; Ph.D., 3; M.A., 11; M.Sc., 3; B.A., 89; B.Sc. (Pure Sci.), 8; B.Sc. (Engin.), 15; B.Sc. (Applied and Indust. Chem.), 3; LL.B., 13; M.B., Ch.B., 33; B.Ed., 14; B.Com., 15; Univ. Diplomas, 70.

# UNIVERSITY OF SOUTH AFRICA

*Address*—P.O. Box 392, Pretoria.

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the UNIVERSITY OF SOUTH AFRICA, with administrative seat at Pretoria.)

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—S. H. PELLISSIER, B.A.

CHAIRMAN OF THE SENATE—Professor G. F. DINGEMANS, M.A.

PRESIDENT OF CONVOCATION—.....

REGISTRAR—C. C. GRANT, M.B.E., M.A.

## CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

POTCHEFSTROOM UNIVERSITY COLLEGE, Potchefstroom (1905).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

## GENERAL INFORMATION

FACULTIES : Arts (including Fine Arts, Divinity, and Music), Education, Science, Engineering, Agriculture, Law, Commerce and Public Administration, Veterinary Science.

DEGREES. B.A., M.A., M.Ed., D.Litt., D.Phil.; B.D., M.Div, D.D.; B.Mus., D.Mus.; B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., D.Sc., B., M., and D.Sc. in Engin.; LL.B., LL.M., LL.D.

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs.; B.Mus., B.A. (Fine Arts), B.Sc. Eng.—4 yrs.; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a Constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs. or at other institutions specially recognized by the Senate for the purpose. But the minimum attendance at approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees at least one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

The M.A., M.Sc., M.Com., and M.Econ. courses each cover 1 yr. after the

Bachelor's degree ; the M.Ed. and M.Div. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M. or M.Sc. (Engin.). Doctorates are granted for approved theses to Bachelors of at least 5 yrs.' or Masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The Master's and Doctor's degree may also be conferred *honoris causa*.

*Research (Bachelor) Degrees.* On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty, subject to approval of Senate.

*Diplomas in Domestic Science and Education (Lower)* open to matriculated students—3 yrs.' course ; in Education (Higher)—1 yr. course after graduation ; in Bantu Studies (Lower and Higher) ; to Music Teachers.

**SCHOLARSHIPS :** 2 or 3 of £150 to £200 p.a. for 3 yrs. awarded annually on results of M.A. and M.Sc. examns. ; Webb Research Scholarship, £200, open to holders of M.A. or M.Sc. of not more than 2 yrs.' standing, undertaking approved course of research work, renewable from year to year up to 3 yrs. ; 1 Music Scholarship of £150 p.a. for 3 yrs., tenable alternately at Royal Coll. of Music, London, and Royal Acad. of Music, London.

**SCHOOL AND MUSIC EXAMNS.** The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers).

**PUBLICATION.** *Calendar* (January), 2s. 6d.

## THE YEAR 1931

**DEATH.** The Vice-Chancellor, Dr. N. M. Hoogenhout, Feb. 1932.

**STUDENTS.** Full-time ; total, 1328. External and part-time : total, 946.

**HONORARY DEGREES.** LL.D.—Dr. H. P. N. Muller ; D.Sc.—Mr. J. E. S. Henkel.

**DEGREES OBTAINED.** B.A., 191 ; B.Sc., 57 ; M.A., 24 ; M.Sc., 16 ; M.Ed., 3 ; B.D., 4 ; LL.B., 32 ; B.Com., 18 ; B.Econ., 5 ; B.A. (Fine Arts), 1 ; B.Sc. (Eng.), 4. Diplomas—Edu. (Higher), 91 ; Edu. (Lower), 6 ; Bantu Studies, 1.



# GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—S. H. PELLISSIER, B.A. Cape

VICE-CHAIRMAN—J. S. M. RABIE, B.A. Cape.

RECTOR—Prof. D. F. MALHERBE, B.A., Dr Phil. Freiburg i. Br.

REGISTRAR—R. B. SAAYMAN.

LIBRARIAN—Prof A. FRANCKEN.

## PROFESSORS, LECTURERS, ETC.

### *Afrikaans and Dutch*

Malherbe, D. F., B.A. Cape,  
Dr.Phil. Freiburg i. Br. Prof.  
Scholtz, H. v. d. M., M.A. Stell.,  
D.Litt. Utrecht (Dutch) Prof.

### *Botany*

Potts, G., B.Sc. Durh., Ph.D.  
Halle Prof.  
Gemmell, Miss D. M., M.Sc. Demr.

### *Chemistry*

Rindl, M., D.Ing. Charl. (Organ.  
and Genl.) Prof.  
Zweerts, F., Chem Ingr. Delft  
(Phys. and Appl.) Lectr.  
Sapiro, M. L., M.Sc. Demr.

### *Classics*

[Prof.  
Ross, J. A., M.A. Cape (Greek)  
Steven, S. J. H., B.A. Ox., M.A.  
Lectr.

### *Commerce*

Harrison, L., C.A. S.A. Lectr.  
van Rooyen, A. J., B.Com. Stell.  
Lectr.

### *Economics*

[Lectr.  
Fourie, I. S., B.A. S.A. and Ox.

### *English*

Hopwood, D. P., M.A. Ox., Litt.D.  
Stell. Prof.  
Mackenzie, B. A., M.A., D.Litt.  
Cape, B Litt. Ox. Lectr

### *Geology and Geography*

Von Bonde, W., M.A., D.Sc. Cape,  
F.G.S. Prof.  
Maartens, Miss M. J., M.Sc. Demr.

### *German and French*

Dekker, J. J., M.A., D.Phil.  
Vienna Lectr.

### *Hebrew*

Lawrence, L., B.A. Lectr.

### *History*

Barnard, S. P., L.N.C. Gron.,  
D.Litt. Leyd. Prof.

### *Law*

Brunk, C. P., B.A., LL.B. Lectr.  
Horwitz, L., B.A., LL.B. Lectr.  
Edeling, H. J., B.Sc., LL.B. Lectr.  
Smit, A. J., B.A., LL.B. Lectr.  
de Villiers, W., LL.D. Leid.

Lectr.  
Grobler, N., B.A. S.A. et Ox.,  
LL.B. Lectr.

### *Mathematics (Pure and Applied)*

Arndt, W. F. C., B.A. Cape,  
Dr.Phil. Gött. Prof.  
Arndt, J. G. A., M.Sc., Dr.Phil.  
Gött. (Applied M.) Lectr.  
v. d. Westhuizen, P. J., M.Sc.  
Stell. Asst.

### *Pedagogy*

Eybers, E., M.A. Edin., Ph.D.  
New York Prof.  
Keyter, J. de W., M.A., B.Ed.  
Stell, Ph.D. Mun. Lectr.

<i>Philosophy</i>	[Prof.	<i>Politics</i>	
Forsyth, T. M., M.A., D.Phil. Edin.		Diederichs, N., D.Litt. et Phil.	
Schmidt, C. H., M.A. Stell.,		Leyd, M.A.	Lectr
B Litt. Ox (Psychol.) Lectr.			
<i>Physics</i>		<i>Zoology and Archaeology</i>	
Logeman, W. H., M.A. Cape Prof.		Dreyer, T. F., M.A. Cape, Ph.D.	
v. d. Bijl, J., M.Sc. Stell, A. M.		Halle	Prof.
Harv.	Demr.	Hoffman, A. C., D.Sc. Stell	Demr.

## GENERAL INFORMATION

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' Diplomas, and prelim. training for Med., Engin., Agric., and Comm.

HOSTELS for men and women within the Coll. grounds. Board and Residence, £15 per quarter. TUITION FEES: £5 per quarter (Law, £2:10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs.; of these 3 are for Agric. study.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres. PUBLICATION: *Calendar* (Dec.).

## THE YEAR 1931

NEW BUILDINGS. Science Block completed.

STUDENTS. Total, 334.

DEGREES OBTAINED. B.A., 26; B.Sc., 10; B.Econ., 1; M.A., 4; M.Sc., 2; LL.B., 3; H.E.D., 33; Law Certif., 5.

# HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

PRESIDENT AND REGISTRAR—Miss BERTHA STONEMAN, D.Sc. Cornell.  
TREASURER AND LIBRARIAN—Miss M. S. CHAMBERLAIN.

## PROFESSORS AND LECTURERS

<i>Botany</i>		<i>French and German</i> [Sr. Lectr.	
Maritz, Sheila, M.Sc.	Sr. Lectr.	Hansen, Christine, Ph.D. Heid.	
<i>Chemistry</i>	[Prof.	<i>History</i>	[Prof.
Kilroe, Miss F. C., B.Sc. Lond.		Stafford, Susan, M.A., N.U.I.	
<i>Classics</i>	[(Latin) Prof.	<i>Horticulture</i>	
Sargent, Helen A., M.A. Oberlin		Hebditch, Miss G. L., Dipl. in H.	
<i>Domestic Science</i>		Reading	Lectr.
Collins, Rhoda, M A. Col., B.Sc.		<i>Mathematics</i>	[Prof
Chic.	Sr. Lectr.	Hatch, Eliz. E., M.A. Camb.	
<i>Dutch Lang. and Lit.</i>		<i>Philosophy</i>	[Proi.
Booyesen, Miss H. J., M.A., B.Ed.		Stoneman, Bertha, D.Sc. Corn.	
Stell.	Prof.	Robson, Grace M., B.A. Cape	
<i>Education</i>			Sr. Lectr.
de Wet, Miss F. C., M.A. Col., B A.		<i>Physics</i>	[Sr. Lectr.
Cape	Prof.	Cox, Martha, B.Sc. Corn.	
<i>English Lang. and Lit.</i>		<i>Zoology and Physiology</i>	
Newman, Gwendolen, Ox. Hons.		Theiler, Gertrud, B.A. Cape, D.	
	Prof.	ès Sc. Neuchâtel	Sr. Lectr.

## GENERAL INFORMATION

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 9690 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and Diploma in Education. Special courses in Domestic Science.

EXPENSES. Class Fees, £20 per annum. Board at the College Hostel, £45 p.a. PUBLICATION: *Calendar* (Dec.).

## THE YEAR 1931

BENEFACTIONS. (1932), £1750.

RETIREMENT. Dr. F. N. Snell (Eng. Lang. and Lit.).

STUDENTS. Full-time: total, 68, including 21 graduates.

DEGREES OBTAINED (1931). B.A., 10; M.A., 3; B.Sc., 0; Higher Dipl., 6; Lower Dipl., 1; Dom.Sc., 4.

# NATAL UNIVERSITY COLLEGE, PIETER-MARITZBURG, AND DURBAN, NATAL

*Address*—P.O. Box 375, Maritzburg.

CHAIRMAN OF COUNCIL—Rev. L. SORMANY, D.D., O.M.I.

PRINCIPAL—Prof. J. W. BEWS, M.A., D.Sc. Edin.

REGISTRAR—L. LINNEY, M.A. Camb.

## PROFESSORS AND LECTURERS

<i>Accountancy and Commerce</i>		
Oldham, O., A.C.I.S.	Prof.	
<i>Art</i> [(Fine Arts) Prof.]		
Oxley, O. P. J., A.R.C.A. Lond.		
<i>Auditing</i>		
Byrd, K. F., M.A. Lond.	Lectr.	
<i>Botany</i> [Prof.]		
Bews, J. W., M.A., D.Sc. Edin		
Bayer, A. W., M.Sc.	Lectr.	
Fisher, Miss B. S., M.Sc.	Lectr.	
<i>Chemistry</i>		
Denison, R. B., D.Sc. Leeds, M.A.		
Cape, Ph.D. Bres.	Prof.	
Mudie, A. D., M.A., B.Sc. St. And.	Lectr.	
<i>Classics</i>		
Petrie, A., M.A. Aberd., B.A. Camb.	Prof.	
<i>Dutch and German</i>		
Le Roux, J. J., B.A., Ph.D.	Prof.	
Nienaber, G. S., M.Ed.	Lectr.	
<i>Economics and Econ. Hist.</i>		
Whittaker, E., B.Sc., Ph.D. Edin.	Prof.	
Palmer, Mrs. M., M.A. Glas.	Lectr.	
<i>Education</i>		
Ferguson, J. G. W., M.A. Ox. and St. And.	Prof.	
Reid, A., M.A., B.Sc. Aberd.	Assoc. Prof.	
<i>Engineering, Electrical</i>		
Clark, H., B.Sc. Eng. Lond., D.I.C., A.C.G.I.	Prof.	
Phillips, W. E., B.Sc. Eng.	Lectr.	
<i>Engineering, Mech. and Civil</i>		
Neal, J. H., A.R.C.S. Lond.	Prof.	
	1 Sr. Lectr., 1 Lectr	
<i>English and Philosophy</i>		
Waterhouse, O., M.A. Vict. and Leeds	Prof.	
	2 Lectrs.	
<i>French</i>		
Leiper, Miss M. K., M.A.	Lectr.	
<i>Geology and Geography</i> [Sr. Lectr.]		
Jehu, R. M., M.Sc. Wales, F.G.S.		
<i>History</i> [Prof]		
Hattersley, A. F., M.A. Camb.		
<i>Law</i> [Prof.]		
Burchell, F. B., M.A., LL.B. Camb.		
Sweeney, G. M. J., B.A., LL.B.	Lectr.	
<i>Mathematics</i> , v. also Physics		
McKinnell, J., M.A., B.Sc. Glas.	Prof.	
<i>Mathematics (Pure and Applied)</i>		
McKinnell, J., M.A., B.Sc. Glas.	Prof.	
Stein, P., M.A., Ph.D. Camb., B.A. Cape	Prof.	
	2 Lectrs.	
<i>Physics</i>		
Mesham, P., M.Sc. Liv.	Prof.	
Coutts, J. R. H., M.Sc. Lond., F.Inst.P. (also Applied Maths.)	Lectr.	
	1 other Lectr.	
<i>Zoology</i> [Sr. Lectr.]		
Bush, S. F., D.Phil. Ox., M.Sc.		

## GENERAL INFORMATION

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921 and a hostel for men in 1928. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

COURSES leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Recently Faculties of Engineering and Commerce have been instituted in Durban and a B.A. degree in Fine Arts.

BURSARIES. A number of Bursaries are offered by the Govt., municipalities, societies, and schools.

HOSTELS for women and men students.

LIBRARY contains c. 11,000 vols.

PUBLICATION : *Calendar* (March).

## THE YEARS 1931, 1932

BENEFACTIONS. Fifty acres of land in the centre of the "Greater Durban" area were handed over to the Natal Univ. Coll. by the Durban Corporation, and a new Howard Memorial Building has been erected by Mr. T. B. Davis at a cost of approx. £70,000.

NEW POST. Hudson Chair of Economics.

EXTRA-MURAL WORK, over 10 % increase.

RETIREMENT. Dr. G. Besselaar (Dutch and German).

STUDENTS. Full-time : (1931), 360, including 37 graduates ; (1932), 455, including 26 graduates. Part-time : total (1931), 161 ; (1932), 177, including 5 graduates.

DEGREES OBTAINED. B.A., 12 ; M.A., 1 ; LL.B., 3 ; B.Sc., 13 ; B.Sc. (Eng.), 4 ; B.Com., 9 ; Diplomas (Education) : Lower, 3 ; Higher, 20.

# THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

CHAIRMAN OF COUNCIL—REV. W. J. DE KLERK

RECTOR AND CHAIRMAN OF THE SENATE—Prof. F. POSTMA, D Litt.

REGISTRAR—Prof. J. C. VAN ROOY, M.A., Ph.D.

LIBRARIAN—Prof. G. DEKKER, M.A., D Litt

## PROFESSORS AND LECTURERS

### *Botany*

Goossens, A. P., M.Sc. Sr Lectr.

### *Chemistry* [Dean and Prof.

du Plessis, D. J., Ph.D. Bonn, M.Sc.

### *Classics*

Postma, F., D.Litt. Amst. Prof.

### *Dutch and Afrikaans* [(Lit) Prof.

Dekker, G., D Litt. Amst., M.A.

Labuschagne, F. J., M.A.  
(Lang.) Sr. Lectr.

### *Economics*

van der Merwe, J. P., D.Litt.  
Amst., M.A. Sr. Lectr.

### *English*

Norenus, Miss A. C., M.A., Ph.D.  
Lond. Prof.

### *German*

Schulze, H. G., Ph.D. Bonn, M.A. [Prof.

### *History*

van der Walt, A. J. H., Ph.D.  
Berl., M.A. Dean and Prof.

### *Mathematics and Applied Maths.*

van Rooy, D. J., M.A. Prof.

### *Physics*

van Wageningen, G. Prof.

### *Pedagogy*

[Prof.  
van Heerden, J. S., M.A. Harv.  
Coetzee, J. C., M.A., M Ed.,  
D.Phil (Psychol.)  
Dean and Prof.

### *Psychology, Logic and Meta- physics*

Stoker, H. G., Ph.D. Köln, M.A.  
Prof.

### *Ethics and Politics*

du Plessis, L. J., M.A., M.Econ.  
Sr. Lectr.

### *Theology*

du Toit, J. D., D.D. Amst. Prof.  
du Plessis, J. A., B.A. Cape. Prof.  
de Wet, C. J. H., D.D. Amst.

Dean and Prof.  
van Rooy, J. C., Ph.D. Amst., M.A.  
Prof.

### *Zoology and Biology*

[Sr. Lectr.  
Eiselen, G. T. S., M.Sc. Witw.

## GENERAL INFORMATION

Founded 1869, and admitted in 1921 as a Constituent College of the Univ. of South Africa. For early history, see *Yearbook* for 1929, p. 503.

PUBLICATION. *Calendar* (Dec.).

## THE YEAR 1932

BENEFACTIONS. Nil.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. R. H. Fife (Visiting Carnegie Professor).

STUDENTS. Full-time: 225, including 30 graduates. Part-time, 3.

DEGREES OBTAINED. B.A., 23; B.Sc., 6; B.D., 4; M.A., 3; M.Sc., 2.

# RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

*Address*—P.O. Box 94.

CHAIRMAN OF COUNCIL—P. C. GANE, K.C., M.A.

MASTER AND CHAIRMAN OF SENATE—Prof. C. W. BOWLES, M.A. Camb.

REGISTRAR—Major E. B. WALKER, M.B.E., M.C.

## PROFESSORS, LECTURERS, ETC.

### *Anatomy and Physiology*

Drury, E. G. D., M.D. Lond. and  
Cape, B.S. Lond., D.P.H.  
Durh., M.R.C.S., L.R.C.P.  
Lectr.

### *Art*

Winter-Moore, A., A.R.C.A. Prof.  
Rutherford, Mrs. J. Lectr.  
..... Asst.

### *Botany*

Smith, N. J. G., M.A., B.Sc. Edin.,  
Ph.D. Camb. Prof.  
Britten, Miss L. L., B.A. Cape  
Sr. Lectr.  
Rennie, Mrs., B.A. Cape Demr.

### *Chemistry and Metallurgy*

Barker, W. F., B.Sc., Ph.D. Liv.  
Prof.  
Smith, J. L. B., B.A. Cape, M.Sc.  
Stell., Ph.D. Camb. Lectr.  
Hellings, R. F., M.Sc. Demr.  
Bushell, L. A., M.Sc. Demr.

### *Classics*

Bowles, C. W., M.A. Camb. and  
Cape (Greek) Prof.  
Barratt, A. J., M.A. Lectr.

### *Commerce, Accounting, Business Management, etc.*

Liddell, D., M.A., B.Com. Edin.  
Sr. Lectr.

### *Dutch*

Dingemans, G. F., M.A. Edin. and  
Cape Prof.  
Hendrikz, Miss P. A., M.A. S.A.  
Asst. Lectr.

### *Economics*

Houghton, D. H., B.A. Ox. and S.A.  
Sr. Lectr.

### *Education*

Hughes, J., M.A. Wales Prof.  
Hendrikz, Miss P. A., M.A. Lectr.  
Wild, E. H., Ph.D. Lond., M.Sc.  
Lectr.  
McKerron, Mrs. M. E., B.A. Lectr.  
3 Instrs.

### *English*

Howarth, P., M.A. Ox., Ph.D.  
Innsbruck Prof.  
Jones, A. Watkin, B.A. Lond.,  
B.Litt. Ox Sr. Lectr.

### *French*

Guiton, P. A., B.A. Lond. Prof.  
*Geology and Mineralogy* [Prof.  
Mountain, E. D., M.A. Camb.  
Rennie, J., M.A., Ph.D. Camb.  
Lectr.

### *German*

Schantz, T. Lectr.

### *History*

Ewing, J., M.C., M.A. Edin. Prof.  
Rousseau, I. J., M.A. Ox. Lectr.

### *Law*

McKerron, G. G., M.A. Edin.,  
LL.B. Edin. and Cape Prof.  
Back, A. W., LL.B. Lond. Lectr.  
Jennett, A., B.A., LL.B. Lectr.

### *Mathematics, Pure and Applied*

Burnett, D., M.A., B.Sc. Aber.,  
Ph.D. Camb. Prof.  
Wood, A. H., M.A. Cape Sr. Lectr.  
King, J. W., M.Sc. Lectr.

<i>Music</i>	[Lectr.	Gane, P., B.Sc.	Demr.
Paterson, Miss K., A.R.C.M.		Williams, A. R., B.Sc.	Demr.
<i>Philosophy</i>		Winter-Moore, Prof. A. (Drawing and Graphics)	Instr.
Lord, A. R., M.A. Ox.	Prof.		
Wild, E. H., Ph.D. Lond., M.Sc.		i Mech. Asst.	
	Sr. Lectr.	<i>Physiology</i> , v. Anat. and Physiol.	
Collett, Miss	Demr.	<i>Zoology</i>	
<i>Physics</i>		.....	Prof.
Varder, R. W., M.A. Cape	Prof.	Brock, Miss G. T., D.Phil. Ox.,	
Watson, S. W., B.A. Cape, Ph.D.		M.Sc.	Actg. Prof.
Camb	Sr. Lectr.	Dick, J., B.Sc.	Demr.

## GENERAL INFORMATION

Incorporated 1904. A Constituent College of the Univ. of South Africa. For historical sketch, see *Yearbook* for 1929, p. 505.

Rhodes Univ. Coll. possesses the only school specially built for the teaching of Fine Art in S.A.

**LIBRARY.** 18,600 vols.

**LABORATORIES.** Applied Maths., Bot., Chem., Geog., Geol., Metall., Mineral., Phys., Phys. Chem., Zool.

**COURSES.** B.A., B.Sc., B.Com., B.Econ., M.A., M.Sc., LL.B., Surveying, Law Certif. (Attorneys), Civil Service Law, Dipl. in Com., Higher and Lower Dipl. in Educ., Art Courses, 1st yr. Course in Med., Dent., Eng., Agric., Vet. Sc., Mining, Music, and Architecture.

**TUITION FEE** for full degree course, £24.

**COLLEGE SCHOLARSHIPS.** open to graduates: 2 of £40, 1 of £50.

**HOSTELS** for 200 men ("College," "Botha," "Milner," and "Graham" Houses), 130 women ("Oriel" and "Jameson" Houses), with dining halls, etc. Board and Residence, £60 p.a. inclusive.

**PUBLICATIONS.** *Calendar* (November); *The Rhodian* (twice a year).

## THE YEARS 1931, 1932

**BENEFACTIONS.** Annual Grants: Rhodes Trustees, £1000; Municipal and Divisional Councils of Eastern Province, £2500; S. Rhodesia Govt., £500.

Visits were received from, and the following lectures were given: Prof. Jesse Jones, Sec. of the Phelps Stokes Commission, on "Essentials of Education"; Mr. F. S. Marvin, M.A., on "Is Progress a Myth"; Miss Hermes and Mr. De Beas, representing the Internat. Federation of Students; Prof. J. W. Bews; Prof. R. H. Compton; Mr. John Walter, Director and Chief Proprietor of *The Times*; Dr. J. S. Henkel, from Southern Rhodesia, on "Forestry"; Mr. Gordon Bagnall on the "League of Nations"; Prof. A. J. Barnouw of Columbia Univ.

**DEATHS.** Prof. H. S. Bodmer (French), Prof. P. B. Weehuizen (German), R. L. Hall (Economics).

**RESIGNATIONS.** Sir John Adamson, Prof. D. Williams (Maths.), Prof. A. S. Kidd (Engl.), Prof. J. E. Duerden (Zool.), Mr. C. M. van Wijk (Physics), Mrs. Roscoe (Asst. Librarian).

**STUDENTS.** Full-time: total, 377, including 46 graduates. Part-time: total, 23.

**DEGREES OBTAINED.** B.A., 48; B.Sc., 30; M.A., 8; M.Sc., 9; Higher Education Dipl., 24; Law Certif., 3; Survey, 2; LL.B., 6 B.Com., 3.



# UNIVERSITY OF PRETORIA

(INCORPORATING AS FROM 10TH OCT. 1930 THE TRANSVAAL  
UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL)

CHAIRMAN OF COUNCIL—MR. JUSTICE G. J. MARITZ, K C., B.A. (Cape and Ox.).

VICE-CHAIRMAN—The Hon J. S. SMIT, B A., LL B.

RECTOR—Prof. A. E. DU TOIT, M.A. Cape.

CHIEF CLERK—R. L. BARRY, B Sc. Stell., M.B.A. N.Y.

## PROFESSORS AND LECTURERS

*Accountancy*, v. Commerce

*Agriculture*, v. *infra*

*Architecture*

Bell - John, H, M C, F.S.I.,  
L R.I.B.A. Prof

Lecturers :

Anderson, Miss G, A.R.C.A. (Free-  
hand Drawing).

Eddey, E. G., B Sc (Eng) (Theory  
of Structures)

McIntosh, W. G., B.Arch. Witw.

Whale, G. R., M.R.S.I. (Sanitation  
and Hyg.).

Lawrie, A. Fraser, A.R.I.B.A.  
(Design, Hist. of A. and Town  
Planning).

*Auditing*

Spooner, F P. Lectr.

*Bantu Studies*

Lestrade, G. P, M A. Cape, A.M.  
Harv. (Sepedi I., Zulu, Bantu  
Philol.) Prof.

Van Warmelo, N. J., Ph.D. Hamb,  
M A. Stell. (Social Anthro-  
pol) Lectr.

*Bio-Chemistry*, v. *infra* Vet.  
Science

*Biology*, v. Zool and Biol.

*Botany*, v. also Vet. Science

..... Louis Botha Prof.

Mogg, A. O. D., M.A. Camb.

Sr. Lectr.

Elbrecht, B., B.A., M.Sc. S.A.

Sr. Lectr.

Mes, Miss G., B.Sc. S.A, D.Sc.

Lectr.

*Chemistry*

Malherbe, D. F. du T., M.A. Cape,  
Ph D. Halle Prof.

Schilz, W. E., D.I.C. Lond., Ph.D.  
Munich, M.Sc. S.A. Lectr.

*Chemistry, Physical*

Tromp, F. J., B.A Cape and  
Camb, D Sc S.A, Dean, Fac.  
of Sc. Prof.

*Classics*, v. also History, Ancient  
Viljoen, H. G., D.Litt.

(Greek) Prof.

Boxwell, J., M A. S.A. (Latin) Prof.

*Commerce and Public Adminis-  
tration*, v. also Auditing,  
Geog.

Arndt, E. H. D., B.A. S.A., M.A.,  
Ph.D. Columbia (Econ. and  
E. Hist.) Dean of Fac. Prof.

Barnes, S. R., F.S.A.A.

(Accountancy) Prof.

Brookes, E. H., M.A., D.Litt. S.A.  
(Public Admin. and Polit.  
Sc.) Prof.

Norval, A. J., D.Merc. Rotterdam  
(C. and Indust. Econ.) Prof.

VUJOEN, S. J., M.A. Cape, Ph.D.  
Lond. (Econ. and E. Hist.)

Sr. Lectr.

Gey van Pittius, E. F. W., M.A.  
S.A., Ph.D. Lond. (Pub. Ad-  
min. and Polit. Sc.)

Sr. Lectr.

*Dutch, Afrikaans and Germanic  
Philol.*

Bokhorst, M., Ph.D., Litt.D. Leid  
(Hist. of Netherlands Culture)

Prof.

du Toit, M. L., M.A. Stell, Ph.D.  
Vienna (Hist. of Afrikaans  
Art and Culture)

Prof.

Le Roux, T. H., B.A. Cape, Litt.D.  
Leid (Hollands)

Prof.

Kritzinger, M. S. B., M.A., D.Litt.  
S.A. (Hollands)

Sr. Lectr.

Rademeyer, J. H., M.A. S.A.  
(Afrikaans)

Lectr.

*Economics, v. Commerce*

*Education*

Louw, A. J., B.A. Cape, B.Sc.  
Edin.

Prof.

Bosman, J. C., M.A. Harv.

Prof.

*English*

Wallis, J. P. R., M.A. Liv., Dean  
of Fac.

Prof.

Titlestad, R. M., M.A., LL.B. S.A.,  
B.A. Ox.

Sr. Lectr.

*Entomology, v. Agriculture*

*French*

..... Sr. Lectr.

*Geography and Econ. Geog.*

Plummer, F. E., M.A. Camb.

Prof.

Hugo, C. F., B.A. S.A., M.A.  
Stell.

Lectr.

*Geology*

De Villiers, L. C., Ph.D., M.E.  
Freib.

Prof.

Scholtz, D., M.Sc. Stell.

Sr. Lectr.

*German*

de Villiers, W. P., B.A. Cape,  
Ph.D. and Litt.D. Ghent

Prof.

Mostert, L. C., D.Phil. Hamb.  
Sr. Lectr.

*Hebrew*

[Prof.]

Gemser, B., D.Litt., Th.D. Gron.

Booyesen, F. J. Z., B.A.

Lectr.

*History*

Fouché, L., B.A. Cape, Ph.D. and  
Litt.D. Ghent

Prof.

Agar-Hamilton, I., M.A. Cape,  
M.A., B.Litt. Ox.

Sr. Lectr.

*Home Economics, v. Agriculture*

*Law, v. infra*

*Mathematics*

Duminy, J. P., M.A. Cape, B.A.,  
B.Sc. Ox.

Prof.

de Loor, B., M.Sc. S.A., Ph.D.  
Amst.

Sr. Lectr.

Langerman, S. M., M.Sc. Cape,  
M.A. Camb.

Lectr.

*Mathematics, Applied*

..... Prof.

*Music*

Ketelbey, H.

Prof.

*Philosophy*

Hugo, T. J., B.A. Cape, Ph.D.  
Gron.

Prof.

Findlay, J. N., B.A. Ox., M.A.  
S.A.

Sr. Lectr.

*Physics*

van der Lingen, J. S., B.A. Cape,  
Ph.D. Johns H., F.I.P., F.R.S.

Prof.

Voss, V., B.A. Cape, M.A., Ph.D.  
Johns H.

Sr. Lectr.

Immelman, M. N. S., M.Sc. Cape

Lectr.

*Political Science and Public  
Admin., v. Comm.*

*Psychology*

[Sr. Lectr.]

Skawran, P., Ph.D. Bonn

Willemse, W. A., M.A. S.A.

Lectr.

*Theology*

Greyvenstein, J. H. J. A., B.A.  
Cape, Th.D. Utr. (Christian

Ethics and New Test. Exe-  
gesis)

Prof.

Macmillan, E., M.A., D.D. Glas.  
 (Philos. of Religion) Prof.  
 Jemser, B., D.Litt., Th.D. Gron.  
 (Old Test. Exegesis) Prof.  
 Engelbrecht, S. P., Th.D. Utr.  
 (Church Hist.), Dean of Fac.  
 Prof.

*Veterinary Science, v. infra*

*Zoology and Biology*

Malan, D. E., M.A. Cape, Ph.D.  
 Zür. (Zool) Prof.  
 Malan, D. J., M.Sc. S.A. Lectr.  
 Brink, C., B.Sc. Stell. Lectr.  
*Zootechnics, v. infra* Vet Science

**Agriculture**

*Agric. Botany*

Hector, J. M., B.Sc. Aberd. Prof.  
 Wyers, Miss E. E., B.A. S.A. Demr.

*Agric. Chemistry*

Ross, J. C., B.A. Cape, M.Sc.,  
 Ph.D. Ill. Prof.  
 Theron, J. J., B.Sc. Agr. S.A.  
 Ph D. Calif. Sr. Lectr.  
 van Wijk, L. P., B.Sc. Agr. S.A.  
 Asst.

*Agric. Economics*

Leppan, H. D. M.C., B.Sc. (Agric.)  
 Tor., M.Sc. Camb. Prof.

*Agric. Engineering*

van Tonder, A. J., B.A. Cape,  
 M.Sc. Calif., A.C.G.I.  
 Sr. Lectr.

*Agr. Entomology*

Faure, J. C., M.A., B.Sc. Corn.  
 Janse, A. J., D.Sc. S.A.  
 (Systematic E.) Hon. Prof.

*Agronomy*

Pullen, A. R., M.Sc. Ill., B.Sc. Agr.  
 S.A. Prof.  
 Thompson, W. R., B.Sc. (Agric.)  
 S.A. Sr. Lectr.

*Animal Husbandry*

Bosman, A. M., B.Sc. Tor.  
 Dean of Fac. Prof.

*Dairying*

Davel, H. B., B.Sc. Iowa  
 Union Castle Prof.

*Domestic Science*

Davidtsz, Miss M. J., B.Sc.  
 Columbia Sr. Lectr.  
 Melck, Miss E., B.S., M S Col.  
 Lectr.  
 Louw, Miss L., B.Sc. (Dom. Sc.)  
 Lectr.

*Horticulture*

Powell, H. Clark, B.Sc. Calif.  
 Union Castle Prof.

*Poultry, v. also Vet. Sci*

van Rooyen, L. A., M.Sc. Corn.,  
 B.Sc. Agr. S.A.  
 Union Castle Sr. Lectr.

**Child Guidance Clinic**

Te Water, M. A., M.B., Ch.B. Hd.  
 Thompson, S. Lucile Lectr.

**Law**

v. also Polit. Sci.

*Civil Procedure and Evidence*

Dowling, W., B.A. Cape, B.A.,  
 B.C.L. Ox. Lectr.

*Criminal Law*

Bresler, C. P., B.A. Cape, M.A.,  
 LL.B. S.A. (and Procedure)  
 Lectr.

*International Law*

Heather, H. G., M.A. Ox. Lectr.

*Jurisprudence*

Pont, D., LL.D. Utr., LL.B. S.A.,  
 Dean of Fac. Prof.

*Mercantile Law*

[Lectr.  
 De Wet, Q., B.A. S.A., B.A. Ox.  
 Lansdown, A. V., B.A., LL.B.  
 S.A. Lectr.  
 Murray, M., B.A. Stell., B.A.,  
 LL.B. T.C.D., LL.B. S.A.  
 Lectr.

*Roman and Roman Dutch Law*

Lecturers:  
 Reitz, R., LL.D. Amst. (Roman  
 L.).  
 Hertzog, A. E., B.A. Stell., B.C.L.  
 Ox., LL.D. Leid. (Roman  
 D.L.).

**Veterinary Science**

v. also Agric

Henning, M. W., M.R.C.V.S Prof.

*Bio-Chemistry*

Malan, A. I., M.Sc. Stell. Prof

*Poultry Diseases*

Coles, J. D. W., B.V.Sc. Lectr.

*Vet. Anatomy*Curson, H. H., D.M.V Hanover,  
F.R.C.V.S. Prof.

Jackson, C., B.Sc., B.V.Sc. Lectr.

*Vet. Bacteriology and Infectious Diseases*Robinson, E. M., D.M.V. Berne,  
D.V.Sc S.A., F.R.C.V.S. Prof.Scheuber, J. R., D.M. Vet. Berne  
Lectr*Vet. Hygiene, Municipal*

Snyman, P. S., B.V.Sc. S.A. Lectr.

*Vet. Medicine*

Parkin, B. S., B.A. Cape, M.R.C.V.S. [Prof.]

*Vet. (State) Medicine*Viljoen, P. R., D.M.V. Berne,  
M.R.C.V.S. Prof.*Vet. Parasitology*Monnig, H. O., Ph.D. Zur., B.A.  
Cape, B.V.Sc. S.A. (also Entomol. and Helminthol.) Prof.*Vet. Pathology*De Kock, G. v. d. W., D.M.V.  
Berne, D.Sc., M.R.C.V.S. Prof.Graf, H., B.Sc., B.V.Sc. S.A.  
Lectr.Thomas, A. D., D.V.Sc. S.A.  
Lectr.*Vet. Pharmacology and Toxicol.*Steyn, D. G., B.Sc. Stell., Dr.Med.  
Vet. Vienna Sr. Lectr.*Vet. Physiology*

Quin, J. I., D.V.Sc. S.A. Sr. Lectr.

*Vet. Physiology, Pathological*

Fourie, P. J. J., M.R.C.V.S. Prof.

*Vet. Surgery and Obstetrics*Quinlan, J. B., D.M.V. Hanover,  
D.V.Sc. S.A., F.R.C.V.S. Prof.

Marais, I. P., B.Sc., B.V.Sc. Lectr.

*Vet. Tropical Diseases and Protozoology*Du Toit, P. J., B.A. Cape, Ph.D.  
Zur., D.M.V. Berl., Dean of  
Fac. Prof.*Zootechnics*Bisshop, J. H. R., B.Sc. Agr.,  
B.V.Sc. S.A. Lectr.**GENERAL INFORMATION**Founded 1910. For early history, see *Yearbook*, 1929, pp. 508-9.

In 1930 the Coll. was incorporated by Act of the Legislature of the Union of S. Africa as an independent Univ. under the title of The Univ. of Pretoria. The Univ. consists of the Chancellor, the Vice-Chancellor, the Rector, the Council, Senate, and Convocation, together with the Professors, other teachers, and students of the Univ. The Rector is *ex officio* Chairman of the Senate.

The Act provides for Faculties or Departments of Arts, Science, Education, Commerce and Public Administration, Agriculture, Veterinary Science, Law, Music, Theology, and such other Faculties or Depts. as the Council may, after consultation with the Senate, with the approval of the Governor-General and subject to the Statutes, from time to time establish.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., Music, and Commerce and Public Administration. FEE for full degree course, £18 : 10s. to £32.

A special feature of the Univ. is the work done in the Extra-mural Faculties. In a building in the centre of the town three miles from the main buildings lectures are given, out of ordinary business hours, for the benefit of public servants, articulated clerks, commercial men and teachers. About 400 students are enrolled, practically all for full degree courses : for B.A., Law B.A., LL.B.,

B.Com., B.A. (Admin.), Masters' degrees, Law Certificate, Banker's Certificate, or Diplomas in Bantu studies and Native Education. The Faculty of Agriculture is one of two in South Africa. It is specialized along different lines from the Faculty in Stellenbosch Univ., attention being paid to Animal and Field Husbandry and Citriculture. A course in Sheep and Wool, as a subject for a degree, has been instituted. The Faculty of Veterinary Science was grafted on to the Veterinary Research Laboratory at Onderstepoort (v. App. XXIV. B. IV). A five-year course in Tropical Veterinary Medicine is provided, leading to the degree of B.V.Sc. Full courses are provided for Architecture and Surveying. A Child Guidance Clinic was opened in 1929. Courses in Bantu Studies are being extended.

**HOSTELS.** 4 for men, including the Dutch and English Church Hostels, and 1 for women. Board and Residence, £60 p.a.

**LIBRARY,** 57,600 vols. **LABORATORIES:** Applied Maths., Bot., Chem., Entom., Geogr., Geol., Phys., Psychology, Zool., Agric., Bot., Agric. Chem., Agronomy, Vet. Anat. **ASTRONOMICAL OBSERVATORY.**

**UNIVERSITY EXTENSION.** The faculties of Agric. and Vet. Sc. co-operate with the Union Dept. of Agriculture in connexion with the extension train service organized by it. Public Lectures are being organized in Pretoria and surrounding districts.

**PUBLICATIONS.** *Calendar* (November); bulletins containing result of research by members of staff.

## THE YEARS 1931, 1932

**BENEFACTIONS.** £8950.

**NEW BUILDINGS.** Administration Block; Students Social Club.

**NEW DEPARTMENTS AND POSTS.** Sheep and Wool Section of Dept. of Animal Husbandry.

**OTHER DEVELOPMENTS.** Courses in the Depts. of Agric. Econ. and Poultry have been further extended.

**EXTRA-MURAL WORK.** Students are prepared for Legal B.A., LL.D., B.Com., B.A. (Admin.), Diplomas in Bantu Studies, Native Administration, and Native Education, and Professional Examinations in Law, Accounting, and Banking.

**VISIT OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS.** Dr. R. H. Fife, M.A. (Virginia), Ph.D. (Leipzig), Litt.D. (Colombia), Litt.D. (Wesleyan Univ.), Carnegie Visiting Professor, 1931.

**RETIREMENT AND DEATHS.** H. P. Lamont (French), retired. Dr. H. O'Grady (Classics), died. Prof. E. T. G. Sherwood (Applied Maths.), died.

**STUDENTS.** Full-time: total, 774, including 116 graduates. Part-time: total, 84, including 5 graduates.

**DEGREES AND DIPLOMAS AWARDED (1931).** D.Litt., 1; D.Phil., 1; D.Sc., 1; D.V.Sc., 1; M.A., 2; M.Ed., 1; M.Sc., 6; M.Sc. (Agric.), 2; B.A., 39; B.Sc. 6; B.Sc. (Agric.), 20; B.Sc. (Dom.Sc.), 4; LL.B., 9; B.D., 2; B.Com., 11; B.A. (Admin.), 4; B.V.Sc., 4. **DIPLOMAS:** Higher Dipl. in Educn., 19; Higher Dip. in Bantu Studies, 1; Lower Dip. in Bantu Studies, 1; Dip. in Social Work, 2; Dip. in Dom. Sci., 4; Dip. in Public Admin., 1.

# UNIVERSITY OF STELLENBOSCH

CHANCELLOR—.....

VICE-CHANCELLOR—Prof. A. MOORREES, Litt.D., LL.D.

PRESIDENT OF CONVOCATION—Rev. H. J. PIENAAR, B.A.

CHAIRMAN OF SENATE—Prof. W. BLOMMAERT, Litt.D. Ghent.

REGISTRAR—D. J. KRIEL, B.A.

LIBRARIAN—G. V. MARAIS, M.A., B.Sc. Col.

## PROFESSORS, LECTURERS, ETC.

### *Agriculture, v. infra*

*Bantu* [Sr. Lectr.  
Eiselen, W. M., M.A. Ph.D., Hamb.  
Engelbrecht, J. A., M.A., Ph.D.  
Berl. Sr. Lectr.  
Coertze, P. J., B.A. Temp. Lectr.  
*Botany* [Prof.  
Nel, G. C., B.A., Ph.D. Berl.  
Duthie, Miss A. V., M.A., D.Sc.  
S.A. Sr. Lectr.  
Markötter, Miss E., M.Sc. Lectr.

### *Chemistry*

van der Merwe, C. D., Ph.D.  
Halle, B.A. (Inorg. C.) Prof.  
van der Riet, B. de St J., Ph.D.  
Halle, M.A. (Organ. C.) Prof.  
du Toit, D. F., D.Chem Leid.,  
M.A. (Phys. C.) Prof.

### *Sr. Lecturers :*

Joubert, D. B., M.Sc., Ph.D., M.I.T.  
Joubert, J. M., M.Sc., Ph.D.,  
M.I.T.

### *Classics*

van Braam, P., Litt.D. Utr., M.A.  
(Latin) Prof.  
Edgar, C. S., B.A. Ox., M.A. Edin.  
(Greek) Prof.  
Basson, J., Ph.D. Berl., M.A. (Gk.  
and Classical Philol.) Prof.  
..... Lectr.

### *Commerce*

Schumann, C. G. W., B.Sc., Comm.  
Dr. Rotterdam Prof.  
Thomas, B. J. A. Sr. Lectr.

### *Dutch and Afrikaans*

Pienaar, E. C., Litt.D. Utr., B.A.  
(Dutch) Jan Marais Prof.  
Smith, J. J., B.A. (Afrikaans)  
Jan Marais Prof.  
Malherbe, F. E. J., Litt.D. Amst.,  
M.A. Prof.  
van der Horst, A. W., B.A. (Afrikaans)  
Sr. Lectr.  
Uys, N. J., M.A. Lectr.

### *Economics*

Grosskopf, J. F. W., Dr. Jur. Leid.,  
M.A. Prof.  
Botha, J. H., Comm.Dr. Rott.  
Sr. Lectr

### *Education*

Cillhé, G. G., Ph.D. Stras., B.A.  
Cruse, H. P., Litt.D. Amst., B.A.  
(History of E.) Prof.  
Taute, B., B.A. (Method) Prof.  
Strasheim, J. J., Ph.D. Lond., M.A.  
(Ped Psych.) Prof.  
Donald, M. M., M.A. Sr. Lectr.  
Hofmeyr, Miss J. I., B.A. Lectr.  
Hofmeyr, Miss A. S., B.A. (Hist.  
of Ed. and Method) Lectr.  
Stockenström, E. C., B.A. Lectr.  
Neethling, Miss K. (Needlework)  
Lectr.  
..... [Prof.

### *English*

Notcutt, H. C., B.A., Ph.D. Lond.  
Walpole, V., M.A. Sheff. Sr. Lectr.  
Hurst, H. N., M.A. Ox. Sr. Lectr.  
Van Heyningen, C., M.A. Sr. Lectr.

van der Horst, A. W., B.A.  
Sr. Lectr.

*French*

Franken, J. L. M., Litt.D. Ghent,  
M.A. Prof.

*Geography*

Serton, P., Litt.D. Utr. Prof.

Conradie, D. J., M.A. Lectr.

*Geology*

Shand, S. J., Ph.D. Munst., D Sc.

St. And. Prof.

..... Lectr.

*German*

[Prof.]

Friedlaender, E., Ph.D. Stras.

Hoge, J., Ph.D. Stras. Sr. Lectr.

*Germanic Philology*

[Prof.]

Bouman, A. C., Litt.D. Utr.

*Hebrew*

du Plessis, J., D.Litt Cape, B.A.,

D.D. Edin. Actg. Lectr.

*History*

Blommaert, W., Litt D. Ghent

Jan Marais Prof.

..... (also Geog.) Lectr.

Wiid, J. A., Ph D. Mun.. M.A.

(Hist. of S. Africa)

Jan Marais Prof

Thom, H B., Phil.D. Temp. Lectr.

*Law*

[Prof.]

Malherbe, W. M. R., LL.D. Leid.

Steyn, I. v. Z., B.A., LL.D. Prof

van Themaat, H. V. L., Dr. Jur.,

Dr. Jur. Pol Leiden Lectr.

Beyers, A. B., B.A., LL.B.

Temp. Lectr.

*Logic and Psychology*

[Prof.]

Wilcocks, R. W., Ph D. Berl., B.A.

Verwoerd, H. F., D.Phil., M.A.

(Applied and Indust. Psys.)

Prof.

*Mathematics*

Mackenzie, A. H., M A. Aberd.

and Camb. Prof.

Stegmann, E. T., B.A., D.Sc. S.A.

Prof.

*Philosophy, Moral and Polit.*

Brummer, N. J., M.A., B.D. St.

And. Prof.

*Physics*

Morrison, J. T., M.A., B.Sc. Edin.,

D Sc. Cape Prof.

Malherbe, W. E., B.Sc. Edin.,

B.A. Prof.

Calliers, A. C., Ph.D. Frankfurt,

M Sc. Sr. Lectr.

Harvey, S. C., B.A. Lectr.

*Physiology*

Battaerd, P., M.D. Leiden Prof.

Brink, H. E., M.Sc. Lectr.

*Theology*

Malan, D. G., M.A., B.D. Princet.

Prof.

van Rooyen, E. E., Th.D. Amst.

Prof.

Lategan, D., M.A., B.D. Princet.

Prof.

Keet, B. B., Th.D. Amst., M.A.

Prof.

*Zoology*

De Villiers, C. G. S., Ph.D. Zür.,

M.A. Prof.

Grobbelaar, C. S., Ph.D. Berl.,

M.A. Sr. Lectr.

*Agriculture*

*Agric. Chemistry*

Malherbe, I. de V., Ph.D. Mun.,

B.A. Prof.

du Toit, M. S., B.A., Ph.D. Camb.

Lectr.

*Agric. Economics*

Grosskopf, J. F. W., M.A., Jur.

Dr Leiden Prof.

van Wyk, S. P., M.A. Lectr.

*Agric. Engineering*

Burt, M. C., B.A., B.Sc. Eng. S.A.

Lectr. and Hd. of Dept.

*Animal Husbandry*

Reimers, J. H. W., Th. Agric. Eng.

Wageningen Prof.

Swart, J. C., M.Sc. Agric. Lectr.

Rhodes, C. C. (Poultry Husb.)

Lectr.

*Dairy Husbandry*

Smit, B. J., B.A., Ph.D. Wisc.

Lectr. and Hd. of Dept.

<i>Entomology</i>		<i>Plant Pathology</i>	
Potgieter, J. T., Ph.D. Ohio, M.Sc.		van der Byl, P. A., M.A., D.Sc.	
	Prof.	S.A.	Prof.
Joubert, C. J., M.Sc.Agric.	Lectr.	Verwoerd, L., D.Sc.Agric.	Lectr.
<i>Field Husbandry</i>		<i>Pomology</i>	
Marais, J. S., Ph.D. Ill., B.A. Prof.		Reinecke, O S H., B.S.A. Guelph,	
Sim, J. T. R., M.Sc. S.A., B.Sc. Ill.		D.Sc. Agric. S.A.	Prof.
	Lectr.	Black, M. W., M.Sc.Agric.	Lectr.
	[Prof.]	Dippenaar, B. J., M.Sc.Agric.	Lectr.
<i>Genetics</i>		<i>Veterinary Science</i>	
Neethling, J. H., M.Sc. Corn.		Dunning, F. J., F.R.C.V.S	
de Villiers, P. J. R., M.Sc.Agric.			Lectr. and Hd. of Dept.
	Lectr.		
<i>Home Economics</i>		<i>Viticulture</i>	
Rabie, Miss A. A., B.Sc.	Lectr.	Theron, C. J., M.Sc. Agric.	Prof.
Jooste, Miss M. E., B.Sc.	Lectr.	.....	Lectr.

## GENERAL INFORMATION

For early history, see *Yearbook* for 1929, p. 512. The University was formally opened on April 2, 1918. By Act. No. 45, 1926, which came into force on October 1, 1926, the Faculty of Agric. (whilst remaining for academic purposes a faculty of the Univ.) was amalgamated with the Elsenburg School of Agric., situated in the division of Stellenbosch, to form the "Stellenbosch-Elsenburg College of Agric. of the Univ. of Stellenbosch." This closer co-operation with the Dept. of Agriculture aims at the better co-ordination of resources "for the promotion of agricultural science and the development of agriculture within the Union." In the main the scientific activities are centred at the University and the practical experimental and extension work at the Elsenburg Experiment Station (2600 acres). On the resignation of Dr. C. K. Brain (June 30, 1928), Dr. P. A. van der Byl was appointed Principal of the College of Agriculture.

The College of Agriculture is also in charge of the Cereal Experiment Station "Langgewens" (1150 acres) in the division of Malmesbury.

**FACULTIES.** Arts, Law, Education, Science, Theology, Agriculture, and Commerce.

**DEGREE COURSES.** B.A. (3 yrs.), B.Sc. (3 yrs.), B.Comm. (3 yrs.), B.Sc. Home Econ. (4 yrs.), B.Sc.Agric. (4 yrs.); LL.B. (4 yrs. or combined with B.A., 5 yrs.); M.A., M.Sc., M.Sc.Agric., M.Comm. (1 yr. post-grad.); B.Educ. (2 yrs. post-grad.); D.Sc., D.Phil., D.Litt., D.Comm. (2 yrs. after Master's degree); D.Sc.Agric. (1 yr. after the M.Sc.Agric.); LL.D. (2 yrs. after LL.B.); B.D. (3 yrs. post-grad.); D.Ed. (3 yrs. teaching experience after B.Educ. and 1 yr. further study and research). Courses are also provided for the Secondary Teachers', Higher Primary, and Primary Certificates; also for certificates in Agric., Comm., Home Econ., and Social Work.

**FEES.** Registration, £2: 5s. p.a. (incl. sports and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's or bachelor's degree, £10 (B.D., £5); Doctorate, £5 p.a. Laboratory per semester, £5 (max.). Exams.: B.A., B.Sc., B.Comm., B.Educ., £10; for Master's degree, £5; Doctorate, £10; LL.B., £30; B.Sc.Agric., £20. Graduation, £2. Board and Residence, £44 p.a. to £54 p.a.

**LIBRARY.** 55,327 vols.



**SPECIAL EQUIPMENT, COLLECTIONS, ETC.** The Dept. of Botany possesses a botanic garden and three hothouses containing a large collection of the peculiar xerophytic flora of South Africa. The Dept. of Agricultural Chemistry has a building and equipment for manual pot-experiments. The Dept. of Bantu Studies is building up a collection of specimens of native art and industry. Zoological and Geological Museums. Vivarium. For Pomology, Viticulture, see App. XXIV. B. IV.

**PUBLICATIONS.** *The Calendar*; *The Stellenbosch Student* (by Students' Repr. Council); *Annals of the University of Stellenbosch* (by Senate); *Die Stellenbosse Oud-student* (by Senate).

**SCHOLARSHIPS FOR GRADUATES.** Generally tenable for 3 years, and open to holders of M.A., M.Sc., M.Sc.Agric., B.Educ., M.Comm., B.D., and LL.B. (with B.A.): Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p.a.), Hiddingh and Ebden (£200 p.a.), Maynard (60 p.a.), H. B. Webb (£120 p.a.), Abe Bailey (£300 p.a.).

**EXTENSION WORK.** Public lectures by members of Staff at Stellenbosch and other places. Regular extension service under Dept. of Agric.

**RESIDENCE.** The John Murray House, affording residence for 350 men students, has been completed at a cost of £109,000. Altogether there are University hostels for 520 men and 190 women.

## THE YEARS 1931, 1932

**NEW BUILDINGS.** New Administrative Buildings completed and officially opened, June 29, 1932.

**NEW POST.** Chair of Forestry.

**VISITS OF TEACHERS FROM OTHER UNIVS., ETC. (1931).** Mr. F. S. Marvin; Mr. John Walter, Chairman of *The Times*, London; Dr. R. H. Fife, Visiting Carnegie Prof.

**RETIREMENTS.** Dr. A. V. Krige (Geol.), Miss M. M. le Roux (Hist. and Geog.).

**DEATHS.** Prof. P. J. G. de Vos, Chancellor of the Univ., on Oct. 1, 1931, and Rev. J. McCulla, M.A. (Classics), on Dec. 19, 1931.

**HONORARY DEGREES.** On the occasion of the celebrations of the 50th Anniversary of the Victoria Coll., with which is incorporated the Univ. of Stellenbosch, the following hon. degrees were conferred: *D.Phil.*—General the Rt. Hon. J. C. Smuts. *D.Litt.*—Senator C. J. Langehoven. *D.Ed.*—Dr. D. F. Malan, Dr. N. Mansvelt, Senator F. S. Malan. *D.Sc.*—Dr. H. J. Van der Bijl. *LL.D.*—Jacob de Villiers, Chief Justice of the Union of South Africa. *D.Sc. Agric.*—Dr. P. J. du Toit.

**STUDENTS, 1931.** Full-time: total, 969, including 200 graduates. Part-time: total 115, including 10 graduates.

**DEGREES (1931).** B.A., 77; M.A., 13; B.Sc., 25; M.Sc., 9; D.Sc., 3; B.Sc.Agric., 28; M.Sc.Agric., 9; B.Educ., 8; LL.B., 8; B. Comm., 11; B.D., 4.

# UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

Telegraphic address—University, Johannesburg.

CHANCELLOR—H.R.H. PRINCE ARTHUR OF CONNAUGHT.

VICE-CHANCELLOR—H. J. HOFMEYR, B.A.

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K.B.E.

PRINCIPAL—H. R. RAIKES, A F C., M.A.

PRESIDENT OF CONVOCATION—Prof. R. F. A. HOERNLÉ, M.A., B Sc.

SECRETARY OF SENATE—Prof. R. B. YOUNG, M.A., D.Sc.

REGISTRAR—H. W. J. VAN DER BRUGGE, M.A., LL.B., J.P.

ASSISTANT-REGISTRAR—I. GLYN THOMAS, B.A.

LIBRARIAN—P. FREER, B.A., F.L.A.

## PROFESSORS, LECTURERS, ETC.

*Actuarial Science, v. Maths.*

*Afrikaans, Nederlands and German*

Krige, J. D. A., Ph.D. Ghent, M. A. Cape Prof.

van den Heever, C. M., M. A. S. A., Litt.D. Amst

(Temp.) Sr. Lectr.

Coetzee, A. J., B.A. Jr. Lectr.

*Anatomy*

Dart, R. A., M.Sc. Queensland, M.D., Ch.M. Syd. Prof.

Galloway, A., M.A., M.B., Ch.B. Aberd. Sr. Lectr.

Macgregor, A. L., M.B., Ch.M. Edin., F.R.C.S. Eng.

(Clin. A.) Lectr.

Gillman, J., B.Sc. Temporary Jr. Lectr.

i Lab. Asst.

*Architecture and Quantity Surveying*

Pearse, G. E., A.R.I.B.A. Prof. Martienssen, R. D., B.Arch., A.R.I.B.A. Temp. Lectr.

Lecturers (Part-time) :

Armstrong, F. W., A.R.C.A.

Bell-John, H., M.C., L.R.I.B.A. (Quantity Surveying).

Gardiner, K. E. F., A.R.I.B.A.

*Bantu Studies*

Doke, C. M., M.A. S.A., Diploma Compar. Bantu, Lond., D.Litt.

Prof.

Hoernlé, Mrs. A. W., B.A. Cape (Social Anthropol.) Lectr.

Bryant, Rev. Father A. T. Research Fellow.

Lecturers (Part-time) :

Jones, J. D. R. (Native Law and Admin.).

Ellenberger, R., B. ès L. Paris, O.I.P. (Sotho).

Pienaar, P. de V., M.A., Ph.D. Hamb. (Phonetics).

*Botany*

Phillips, J. F. V., D.Sc. Edin. Prof. Moss, Mrs. M., M.A. Wellesley.

Sr. Lectr.

Young, Miss E. M., M.Sc. S.A.,  
Ph.D. Wisc. Lectr.  
1 Lab. Asst.

*Chemistry and Chem. Engineering*

Wilkinson, J. A., M.A. Camb,  
M.I Chem E. Prof.  
Robertson, J. B., M.A., B.Sc.,  
Ph.D. Edin., F.I.C. Sr. Lectr.  
Krige, G. J. R., M.Sc. Stell., Ph D.  
Gott Lectr.  
Segal, B., M.Sc. Eng. Jr. Lectr.  
1 Lab. Asst.

*Chemistry, Organic* [Prof.

Stephen, H., O.B.E., D.Sc. Manc.  
Backeberg, O. G., B.A. Ox., M.Sc.,  
A.I.C. Lectr.

*Classics*

Haarhoff, T. J., B.A. Cape, B.Litt.  
Ox., Litt.D. Amst. Prof.  
Williams, Miss M. V., M.A. Camb.,  
B.A. Cape Sr. Lectr.  
Wagner, A. I., B.A. Ox. and Cape,  
LL.B. S.A. and Lond.  
Sr. Lectr.  
Acheson, G. J., M.A. Ox. Lectr.

*Commerce*

Richards, C. S., M.Com. Durh  
Prof.  
Greenwood, H., C.A. S.A. Lectr.  
Lecturers (Pt-time):  
Barnes, W. J., C.A. S.A.  
Mockford, H. S., C.A. S.A.  
Poulton, C. J. R., C.A. S.A.

*Economics and Econ. Hist., v.*  
also Hist.

Frankel, S. H., Ph.D. Lond., M.A.  
Prof.  
Pollak, H. P., B.A. Pt-time Lectr.

*Education* [Prof.

Macgregor, W. R., M.A. Aberd.  
van der Merwe, P. J., M.A.  
Asst. (pt-time)

*Engineering, Civil*

Sutton, W. G., B.A., B.Sc. Eng.  
Cape Prof.  
Clark, A. D., B.Sc. Lond. Lectr.

*Engineering, Electrical*

Randall, O. R., B.Sc. Lond., Ph.D.  
Birm., M.I.E.E. City Prof.  
Goldsmith, A., B.A. Cape, B.Sc.  
Eng. Sr. Lectr.  
Allan, J. T., B.Sc. (Eng) Glas.  
Lectr.

*Engineering, Mechanical*

Walker, W. J., D.Sc. Eng., Ph.D.  
St. And. De Beers Prof.  
Jensen, A. E., B.Sc. Lond. and  
S.A. Sr. Lectr.  
Gimkey, F., M.Sc. Eng. Sr. Lectr.  
Drysedale, J. Lectr.  
2 Instrs.

*English*

Greig, J. Y. T., M.A., D.Litt.  
Glas Prof.  
Lawrie, J. G., M.A. S.A., D.Litt.  
Sr. Lectr.

*French and Romance*

Maingard, L. F., M.A., D.Lit.  
Lond., L. en D. Paris. Prof.  
Papenfus, Miss E. M., B.A., Ph.D.  
Lond. Lectr.

*Geography*

Wellington, J. H., B.A. Lond.,  
M.A. Camb. Prof.  
Jackson, S. P., B.A. Jr. Lectr.

*Geology*

Young, R. B., M.A. Glas., D.Sc.  
Edin. Prof.  
Janisch, Edna P., M.Sc. Lectr.  
Mendelssohn, E., M.Sc. Lectr.

*German, v. Afrikaans*

*Hebrew*

Landau, J. L., Ph.D. Vien., M.A.  
Cape Prof.

*History*

Macmillan, W. M., M.A. Ox. Prof.  
Hodgson, Miss V. M. L., B.A. Cape,  
M.A. Ox. Sr. Lectr.  
Hope, A. A., B.A., B.C.L. Ox.  
Lectr. (pt-time).

*Law, v. also Bantu Studies*

McKerron, R. G., M.A. Aberd.,  
B.A., B.C.L. Ox. Prof.  
Murray, J. C. (Merc. Law) Prof.

## Assts. (Pt-time) :

Bernstein, B L, B A, LL.B.  
 Coaker, N. E., M.A., LL.B. S.A.  
 Hope, A. A, B A., B.C.L. Ox.  
 Lourie, A., B A., LL.B.  
 Pollak, W, LL.B. Camb., S.J D.  
 Harv., M.A.  
 Rissik, H., B A. Cape, M A.,  
 B C.L. Ox.

*Mathematics and Actuarial Science*

[Prof.  
 Dalton, J. P., M.A., D.Sc. St. And.  
 Constançon, C., Dip. Ing. Zur.  
 Sr. Lectr.  
 Kerrich, J. E., M.Sc., Dip.Act.  
 Math. Edin. Lectr.  
 Young, F., B.A. Lectr.

*Maths., Apphed*

[Prof.  
 Le May, H., M.A., B.Sc. Glas.  
 Bleksley, A. E. H., M.Sc. Stell.  
 Jr. Lectr.

*Metallurgy and Assaying*

Stanley, G. H., D.Sc. Eng.,  
 A.R.S.M., F.I.C., M.I.M.E.,  
 M.I.M.M. Prof.  
 Millin, D., B.A. Cape, F.I.C.  
 Sr. Lectr.  
 Davidson, A. C., B Sc.Tech. Manc.  
 Lectr.

*Mining and Surveying*

..... De Beers Prof.  
 Hoffenberg, S. N., B.Sc. Cape,  
 M.Sc. (Eng.) Sr. Lectr.

*Music*

Kirby, P. R., M.A. Aberd., D.Litt.,  
 F.R.C.M. Prof.

## Lecturers (Pt-time) :

Duggan, C. A. O.  
 Paff, W., A.R.C.M., L.R.A.M.  
 6 Instrs. (pt-time).

*Philosophy*

[Prof.  
 Hoernlé, R. F. A., M.A., B.Sc. Ox.  
 MacCrone, I. D., M.A. Cape,  
 B.A. Ox. Sr. Lectr.  
 Murray, A. H., M.A. Stell., B.Litt.,  
 Ph.D. Ox. Jr. Lectr.

*Physics*

Paine, H. H., M.A. Camb., B.Sc.  
 Lond. and Wales Prof.  
 Evans, G. T. R., B.Sc. Wales  
 Sr. Lectr.  
 Cooper, M. A, M Sc. S.A. Lectr.  
 Halliday, E. C., Ph.D. Cape T.  
 Lectr.  
 Norris, H. W. Lecture Asst.

*Physiology*

Stammers, A. D., M.A. Camb.,  
 D.Sc. S.A. Otto Beit Prof.  
 Osborn, T. W. B., M Sc. S.A.  
 D.Phil Ox, B.Sc. Lectr.  
 Mellé, B. G, B.A. Cape, M.A.,  
 B M., B.Ch. Ox., F.R.C.S.  
 Edin. (Chn. P) Lectr.  
 2 Pt-time Demrs., 1 Lab. Asst.

*Zoology*

..... Prof.  
 van der Horst, C. J., D.Sc.  
 Amster. Sr. Lectr.  
 Paterson, Miss N. F., Ph.D. Camb.,  
 M Sc. Lectr.  
 Murray, Rev. D. P  
 Hon. Curator in Entomol.

*Medicine*

(for subjects of first 2 yrs.—  
 Anat., etc., v. *supra*)

*Anæsthetics*

[Lectr.  
 Mudd, F. B, M.R.C.S., L.R.C.P.

## Hon. Demrs :

Weinbren, B., M.B., Ch.B. Edin.  
 Crawford, D., B A. Camb.,  
 M.R.C.S., L.R.C.P.  
 Fisher, M., M.B., Ch.B. Liv.  
 Bornman, S. M.

*Applied Anatomy and Operative Surg.*

Beyers, C. F., B A. Cape, M.B.,  
 M.S. Lond, F.R.C.S.  
 Lectr., Demr. in Op. Surg.

*Dermatology*

Gluckman, I., M.R.C.S., L.R.C.P.  
 Lectr.

*Diseases of Children*

Baumann, E. P., M.D., Ch.B.  
Edin., M.R.C.S., L.R.C.P.

Lectr.

Mellé, B. G., B.A. Cape, M.A.,  
B.M., B.Ch. Ox., F.R.C.S.  
Edin. Hon. Asst. Lectr.

Heymann, S. C., M.B., B.Ch.  
Hon. Clin. Tutor.

*Diseases of Children, Surgical*

Ross, R. A., M.B., Ch.B. Edin.,  
F.R.C.S. Lectr.

Macgregor, A. Lee, M.B., Ch.M.  
Edin., F.R.C.S.

Hon. Asst. Lectr.

Tucker, M. K., M.B., Ch.B. Cape  
Hon. Clin. Tutor.

*Ear, Nose, and Throat, Dis. of*

Pink, W. L., M.B., B.S. Lond.,  
F.R.C.S. Lectr.

Hon. Asst. Lecturers:

Campbell, A., M.B., Ch.B., D.P.H.,  
F.R.C.P., F.R.C.S. Edin.,  
R.F.P.S. Glas.

Andrew, T. F., M.C., M.B., Ch.B.,  
F.R.C.S. Edin.

*Eye, Diseases of the*

Brinton, A. G., F.R.C.S. Edin.,  
M.R.C.S., L.R.C.P. Lectr.

Hon. Asst. Lecturers:

Meyer, R. C. J., B.A. Cape, M.D.,  
F.R.C.S. Edin., D.O. Ox.

Robinson, F. H., M.B., Ch.B.  
Camb., M.R.C.S.

*Forensic Medicine*

Levin, J. J., M.B., Ch.B. Edin.  
Hon. Prof.

*Infectious Diseases*

Loeser, H. A., M.D. Zür. Lectr.

*Medical Ethics*

Heberden, W. S., M.R.C.S.,  
L.R.C.P. Lectr.

*Medicine*

Craib, W. H., M.C., B.A. Cape,  
M.A., M.D., B.Ch. Camb.,  
M.R.C.P. Lond. Prof.

Sr. Clin. Lecturers:

Girdwood, R. L., M.D., Ch.B. Edin.

Bloom, A., M.B., Ch.B. Edin.,  
D.P.H.

Braun, L. I., M.D. Lond., M.R.C.P.  
Clin. Lecturers:

Balkin, I. J., M.B., Ch.B. Edin.  
Heimann, H. L., B.A. Cape, M.D.,  
B.S. Lond., M.R.C.P.

Gordon, Mary, M.B., B.S. Durh.  
Peacock, G. E., M.R.C.S. Eng.,  
L.R.C.P. Lond.

De Waal, J. J., M.R.C.P., D.P.H.,  
D.T.H. Clin. Tutor.

*Obstetrics and Gynaecology* [Prof.  
Grant, W. Gordon, M.D. Aberd.

Sr. Clin. Lecturers:

Te Water, F. K., M.B., Ch.B.,  
F.R.C.S. Edin., M.R.C.S.,  
L.R.C.P.

Maxwell, W. H., M.A., M.B. Camb.,  
M.R.C.S., L.R.C.P.

Clin. Lecturers:

Schabert, I. P., M.D. Heid.  
Black, Jas., M.D., Ch.B. Edin.

Don, Jean D., M.D., Ch.B. Edin.,  
D.P.H. Edin., L.M. Dub.

2 Tutors.

*Orthopædics*

Fouché, F. P., M.D., Ch.B. Edin.,  
F.R.C.S. Hon. Lectr.

*Pathology and Bacteriology*

Lister, Sir Spencer, M.R.C.S.,  
L.R.C.P., LL.D. Cape

Hon. Prof.  
Strachan, A. S., M.A., B.Sc., M.D.,  
Ch.B. Glas. (Pathol.)

Hd. of Dept. & Lectr.

Becker, J. G., M.B., Ch.B. Glas.,  
D.P.H., D.T.M. Liv.

(Bacteriol.) Sr. Lectr.

Porter, Annie, D.Sc. Lond.,  
F.R.S.S.A., F.L.S.

(Parasitol.) Sr. Lectr.

*Pharmacology* [Prof.  
Watt, J. M., M.B., Ch.B. Edin.

Stephen, Florence V., M.Sc. Vict.,  
M.B., Ch.B. Manc., M.R.C.S.,  
L.R.C.P. Jr. Lectr.

1 Lab. Asst.

*Physio-Therapy* [Hon. Lectr.  
Woolf, E. B., M.R.C.S., L.R.C.P.

*Psychiatry and Mental Hygiene*  
Dunston, J. T., M.D., B.S. Lond

Hon. Prof  
Truter, F. C., M.B., Ch.B. Edin.

Clin. Lectr  
Russell, W., M.D., Ch.B. Edin

Hon. Clin. Lectr

*Public Health*  
..... Hon. Prof

*Radiology*  
Olivier, P. J., M.D. Edin.,  
D.M.R.E. Camb. Lectr

*Surgery*  
Brebner, I. W., M.A., M.B., Ch.B.,  
F.R.C.S. Edin. Prof.

Sr Clin. Lecturers:  
Beyers, C. F., B.A. Cape, M.B.,  
M.S. Lond., F.R.C.S.

Levin, J. J., M.B., Ch.B. Edin

Welchman, W., M.B., B.S. Lond.,  
F.R.C.S. Eng.

Clin. Lecturers:  
Dauth, D. J., M.D., Ch.B. Edin.  
Greenberg, M., M.B., Ch.B.,  
F.R.C.S. Edin.

Douglas, J. A., M.D., Ch.B. Edin.,  
F.R.C.S. Edin.

Pocock, W. A., M.B., B.Ch. Camb.,  
F.R.C.S. Eng., L.R.C.P. Lond.

Fouché, J. C., M.B., M.Ch. Dub.,  
F.R.C.S. Eng. Clin. Tutor.

*Tropical Medicine*  
Orenstein, A. J., C.M.G., M.D.  
Jeff., M.R.C.S., L.R.C.P.,  
Chev. de l'O. de la Couronne,  
Belg. Lectr.

*Urology*  
Maisels, I., M.B., Ch.B. Edin.,  
F.R.C.S. Edin. Hon. Sr. Lectr.

Brayshaw, H. C., M.B., Ch.B.  
Edin., F.R.C.S. Eng. and  
Edin. Hon. Lectr.

*Vaccination*  
Porter, C., M.D., B.Ch., R.U.I.,  
D.P.H. Camb., LL.D.,  
M.R.C.S. Instr.

*Venereal Diseases*  
Gluckmann, H., M.R.C.S.,  
L.R.C.P. Lectr.

*Dentistry*  
Shaw, J. C. M., M.A., B.Dent.Sc.,  
D.D.S. Prof.

*Anæsthetics, General*  
Mudd, F. B., M.R.C.S., L.R.C.P.  
Hon. Lectr.

*Anæsthetics, Oral*  
Foote, H. J., M.B., B.Ch., L.D.S.  
Edin. Hon. Lectr.

*D. Dis. of Children*  
Cassell, D., B.A. Cape, D.D.S.  
Mich. Hon. Lectr.

*D. Ethics and Jurisprudence*  
Eccles, B. J., L.D.S., R.C.S. Eng.,  
M.R.C.S., L.R.C.P.  
Hon. Lectr.

*D. Histology*  
Staz, J., L.D.S., R.C.S. Demr.

*Orthodontia*  
Braun, M. F., L.D.S., R.C.S. Eng.,  
D.D.S. Penn. Lectr.

*Prosthetics*  
Berry, T. B., L.D.S., R.C.S. Eng.,  
B.Sc. Eng. Cape Lectr.

*D. Radiology*  
Hossack, F. A., L.D.S., R.F.P.S.  
Glas. Lectr.

*Operative D. Surgery*  
Hunter, B. Mitchell, L.D.S., R.C.S.  
Edin., D.D.S. Penn. Lectr.

*D. Pathology and Histo.-Path.*  
Friel, G., B.A. Dub., L.D.S. Irel.  
Lectr.

*D. Therapeutics*  
Breyer, J. H., Tandarts (Utrecht).  
Lectr.

*Oral and Gen. Surg.*  
Welchman, W., M.B., B.S. Lond.,  
F.R.C.S. Eng. Lectr.

*Oral and Gen. Med.*  
Bloom, A., M.C., Ch.B. Edin.,  
D.P.H. Lectr.

**ASSOCIATED INSTITUTIONS.** There are several hospitals as well as the South African Institute for Medical Research (v. App. XXIV.) in which students of Med. carry out a part of their curriculum.

## GENERAL INFORMATION

For early history, see *Yearbook* for 1929, p. 518. In 1921 University College, Johannesburg, was reincorporated as the University of Witwatersrand, Johannesburg, with effect from March 1, 1922. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to Dec. 1931 amounted to £667,638. **LIBRARIES:** Central, and several departmental. **MUSEUMS:** Several departmental.

**FACULTIES:** Arts, Sc., Med, Engin., Comm., Law, Dentistry.

**DEGREES.** B.A., B.Sc. or B.Mus., 3 yrs., Hons. 1 yr.; M.A. or M.Sc., 1 yr. after Hons. and Thesis; D.Litt., D.Phil., LL.D., or D.Sc., Thesis; B.Ed., 2 yrs. (post-grad); M.Ed., Thesis; B.Com. 3 yrs., M.Com., Exam. and Thesis, B.Sc. (Eng.), 4 yrs.; M.Sc. (Eng.), Thesis; B.Arch., 5 yrs.; M.Arch., Thesis; LL.B., 3 yrs. (post-grad.); LL.M., Thesis; M.B., Ch.B., 6 yrs.; M.D. or M.S., Thesis and Examn.; B.D.S., 5 yrs.; D.D.S., Thesis. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

**DIPLOMAS.** Classics, French, Afrikaans, German, Economics, Geography, Philosophy, Archit., Music, Bantu Studies, Public Health, Tropical Medicine and Hygiene, Psychological Medicine, Actuarial Maths., Quantity Surveying Courses for Teachers' Certifs., Law Certif., Civil Service Law examn., Land Surv., Professional Examns. in Accounting and Auditing. **FEES** from 12 gs. p.a. (Civil Service Law) to £35 (M.B.).

**SCHOLARSHIPS** open to Graduates: Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200; Adolph Wagner (Engin.), £150.

**RESIDENCE.** Hostels for 160 men and 85 women. **FEES**, £65 p.a.

**UNIV. EXTENSION.** Public lectures under joint auspices of Univ. and W.E.A. Afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree (4 yrs.) Part-time course for B.Com. (4 yrs.).

**PUBLICATIONS.** *Calendar*; *Bantu Studies*; *Umpa* (S.R.C.).

## THE YEAR 1932

Damage to the extent of £20,000 (covered by insurance) was caused by fire in the Central Building on the night of 24th December 1931. The Central Library, housed temporarily in this building, was almost completely destroyed, but is being rapidly replaced with the aid of generous donations. An Appeal Committee under the Chairmanship of the Rt. Hon. the Earl of Athlone, K.G., G.C.M.G., G.C.V.O., D.S.O., has been established in London for the collection of books, etc., to replace those lost, and an Appeal Fund has been opened in South Africa to provide a separate and up-to-date Library Building.

**BENEFACTIONS.** Union Government (annual grant), £76,000 for current expenditure and interest on loans, £900 for post-graduate scholarships, £125 for bursaries; Johannesburg Municipality, £1000 for City Chair of Elec. Engineering, £280 for Dental Hospital, £6000 for undergrad. scholarships and bursaries; other Witwatersrand Municipalities, £200 for general purposes, £752 : 10s. for bursaries; Witwatersrand Council of Education, £85 for general purposes, £1000 for bursaries; Witwatersrand Univ. Committee (from public subscriptions, including grant from Johannesburg Municipality), £13,000 for general purposes; Rhodes Trustees, £400 for research in Bantu Studies; various other bodies, £1715 for scholarships and prizes.

**HONORARY DEGREES.** *D.Sc.*—Nicholas E. Brown. *LL.D.*—Chaim Weizmann, *D.Sc.*, *Sc.D.*, *LL.D.*

**STUDENTS.** Full-time: total, 1402, including 113 graduates. Part-time: total, 372, including 27 graduates.

**DEGREES.** *D.Litt.*, 1; *M.A.*, 3; *B.A.* (with Hons.), 9; *B.A.* (Ord. Degree), 83; *B.Mus.*, 2; *D.Sc.*, 1; *M.Sc.*, 3; *B.Sc.* (with Hons), 13; *B.Sc.* (Ord. Degree), 20; *M.B.*, *B.Ch.*, 13; *D.Sc.* (Eng.), 1; *M.Sc.* (Eng.), 1; *B.Sc.* (Eng.), 36; *B.Arch.*, 3; *B.Com.*, 28; *B.Econ.*, 1; *LL.B.*, 12; *B.D.S.*, 4; Diplomas, 15.



# COLLEGE OF AGRICULTURE, MAURITIUS

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—G E BODKIN, B.A.  
(Dip Agric.) Camb.

REGISTRAR—M. KOENIG, A.Inst.P.

## LECTURERS

*Agronomy*—Coombes, A N., B.Sc.  
Lond.

*Animal Husbandry and Vet. Science*  
—Lionnet, E., Ec Vet Alfort;  
Lefébure, Y.

*Biology and Entomology*—Moutia,  
A., and 2 others.

*Book-keeping*—Nicolin, H.

*Botany and Mycology*—Shepherd,  
E. F. S., B.S.A. McG.

*Chemistry*—Lincoln, R, M.A.  
Camb.; Berchon, F.

*Physics*—The Registrar.

*Sugar Technology*—Baissac, L.,  
F.C.S.

*Surveying and Agric. Engineering*  
—Avice, R., A.R.T.C

## GENERAL INFORMATION

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, Physics, and Sugar Technology. Athletic grounds are attached to the College.

A 3 years' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The exams. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in April.

Minimum age for admission, 18. Entrance Examn. in English, French, Chemistry, and Maths. Holders of Matric. certificate of any British University are excused those subjects which appear on their matric. certificate.

Tuition fee for British subjects not natives of Mauritius, £20 p.a.

## THE YEAR 1931-32

NEW DEPARTMENTS AND POSTS. Full-time lecturer in Agronomy.

CHANGES IN REGULATIONS. Reversion to three years' course.

STUDENTS. Full-time, 11. Part-time, 3.

DIPLOMAS awarded (in Agric.), 3.

# UNIVERSITY OF MALTA

VISITOR—H E. THE GOVERNOR OF MALTA.

RECTOR AND CHAIRMAN OF THE COUNCILS—Prof. T. AGIUS, M.A., M.D.,  
F.R Met S

SECRETARY—GEO. GRIMA.

## PROFESSORS, LECTURERS, ETC.

<i>Anatomy and Histology</i>		<i>Mathematics, Mechanics, and Pract. Engin.</i>	
Busuttil, R., M.A., M.D.	Prof.	Nixon, W F., B.Sc Lond., A R.C.S.	
Vella, Salv. L., B.Sc., M D , D L.O.		Lond , Wh. Exhr.	Prof.
(Eng.)	Asst Prof.	<i>Mechanics, Applied, and Descriptive Geometry</i>	
<i>Biology, v. Nat. Hist.</i>		Gatt, J L , A. & C.E.	Prof.
<i>Chemistry</i>		<i>Medicine and Surgery, v. infra</i>	
Sultana, A., M.D.	Prof	<i>Natural History</i>	
<i>Engineering and Architecture</i>		Borg, John, M.A., M.D.	Prof.
Galea, Hon R. V., M L A. (also		<i>Philosophy</i>	
Lectr. in Pract. Geom. and		Cuschieri, Hon Senator Very Rev.	
Mensuration)	Prof.	A , Ph D , D.D , O.C.	Prof.
<i>English Literature and History</i>		<i>Physics</i>	
Fogarty, Owen J., B.A. N.U.I.,		Borg, S., M.D.	Prof.
M.R.S.T. (Eng.)	Prof.	<i>Physiology</i>	
<i>Experimental Sciences</i>	[Demr.	Xuereb, P., B.Sc., M.D.	Prof.
Manchè, Jos. A., B.Sc., M.D.		<i>Political Economy</i>	
<i>Italian Literature</i>		Cortis, G., B Litt , LL.D.	Prof.
Laurenza, V., D.Lit. Naples	Prof.	<i>Theology</i>	
<i>Latin Literature</i>		Formosa, Most Rev. Can. Mgr. G.,	
.....	Prof.	B A., D.D., J U D. Rome	
<i>Law</i>		(Dogm T.)	Prof.
Galea, Most Rev. Can Mgr. E.,		Zammit, Most Rev. Can. Mgr. C.,	
B Lit., D.D., J.C.D. Rome		D.D.	(Moral T.) Prof.
(Canon L)	Prof.	Saydon, Rev. P P., B Lit., B.L.	
Mallia, C, M.L A., B.Litt., LL.D.		Can., Lic.S. Script., D.D.	
(Comm L)	Prof.	(Holy Script. and Hebrew)	Prof.
Vassallo, E C., M.A., LL.D.			
(Const and Internat. L.)	Prof.		
Caruana, V., B.Lit., LL.D. (Civil			
L.)	Prof.		
Randon, Hon. Senator L. A., B.A.,			
LL.D. (Crim. & Science of L.)			
	Prof.		
Bartolo, Hon. Sir A., B.Litt., LL.D.,			
F.R.Hist.S. (Hist. of Legisln.			
in England and Malta)	Prof.		
Frendo, P. G., LL.D. (Fiscal Laws,			
Statistics and Admn.)	Prof.		

*Forensic M. and Toxicology*  
Hyzler, J., M.L.A. B.Sc., M.D. Prof.

*Hygiene and Preventive M.*  
Bernard, A. V., O.B.E., M.D.,  
D.P.H. Liv. Prof.

*Materia M., Pharmacol., and  
Therap*  
Cassar, I., M.D. Prof.

*Medicine*  
Ferro, E. H., B.A., M.D. Prof.  
Debono, J. E., B.Sc., M.D.,  
M.R.C.S., L.R.C.P. Asst. Prof.

*Mental Diseases*  
Vassallo, V., M.D., D.P.M. Prof.

*Midwifery and Gynæcology*  
Ellul, Jos., B.Sc., M.D. Prof.  
Cesareo, John A., M.D. Asst. Prof.

*Ophthalmology*  
Preziosi, Hon. Senator Cont. L.,  
B.Sc., M.D., D.O. Ox. Prof.

*Pathology, v. Bact. and Pathol.*

*Surgery*  
Debono, P. P., M.D., D.P.H.  
Camb., F.R.C.S. Eng. Prof.  
Camilleri, V. T., M.D. Asst. Prof.

*Venereol. and Dermatol.*  
Curmi, V. M., M.D. Naples Lectr.

## GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonceca of the Order of St John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591-93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt. Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

**LIBRARY**, 6000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. **MUSEUMS**: Nat. Hist. and Archæol. **OBSERVATORY**, full meteorol. equipment and seismograph. **BOTANICAL GARDEN**. **HOSPITALS**, available for Clinics: general (300 beds) and several special; Leper Asylum (100); lunatic (800); aged poor (800).

**FACULTIES**: Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

**MATRICULATION** examn. requires pass in 5 subjects, including English, Italian, Maths., and, except for the course of Archit. and Engn., Latin.

**DEGREES, ETC.** B.A., B.Sc., B.E. and A., M.D., LL.D., D.D., B.L. Can. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

**SCHOLARSHIPS FOR GRADUATES.** £120, one each in Theol., Law, Engn., and Med. (Travelling Scholps.). £50, one each in Theol., Law, Med. One of £120 awarded every 6 years in the faculty of Med.

**PUBLICATION.** *Calendar* (Oct.).

## THE YEAR 1931-32

**RETIREMENTS.** Prof. R. M. Toledo, retired. Rev. Prof. Fr. Daniel M. Callus, O.P., resigned. Dr. R. L. Casolani, resigned.

**STUDENTS.** Full-time: total, 114, including 20 graduates. Part-time: total, 30.

**DEGREES OBTAINED.** B.A., 9; B.Sc., 14; B.E.A., 3; B.L.Can., 1; M.D., 15; LL.D., 6; D.D., 1.

# THE UNIVERSITIES OF INDIA

[This chapter has been revised and brought up to date.]

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the University. The London University, at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta University Commission, 1917-19*). In pursuance of this policy, Universities were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Universities should have no teaching functions, but in point of fact until about 1914 they concerned themselves solely with examinations. In 1882 and 1887 the Universities of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Universities Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Universities, their assumption of teaching functions, and more effective supervision by them of the Colleges, as well as more exacting conditions of affiliation. University Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Universities, but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Universities were established in 1916 and 1917. The Osmania University, Hyderabad, Deccan, was also established in 1918, though actual tuition began only in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta University Commission, 1917-19. In the University of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes

recommended by this body, but their recommendations have to a great extent determined the lines on which a number of new Universities were established in 1920 and following years. Aligarh, Dacca, Lucknow, and Allahabad may be described as unitary, teaching and residential Universities; and the University of Agra was created under an Act of the United Provinces of 1926 for the purpose of affiliating all the colleges previously associated with the University of Allahabad which had not been transferred to the Nagpur University (see below). Delhi and Rangoon have constituent colleges which are not wholly controlled by the University and may perhaps be described as residential and "semi-unitary." Patna approaches them in type. The Patna University Act of 1917 was amended by an Act in 1932 so as to make the constitution correspond with existing conditions. In 1928 the constitution of the Rangoon University was somewhat altered by an Act of the provincial legislature. Part of the teaching in Delhi is carried on by the Univ. itself. The Nagpur University was established by legislation in 1923 and took over a number of colleges previously affiliated to Allahabad, to which have been added an Agricultural College. The University itself carries on the teaching of law. In 1926 an Act of the Madras Legislative Council provided for the establishment of an affiliating University at Bezwada (the Andhra University). The headquarters of Andhra University have been moved to Waltair. Bombay University was reorganized in 1928, and the new Act came into force in 1929. The report of the Bombay University Reform Committee (published 1925) recommends the establishment of a University at Poona. The latest addition to the universities of India is the Annamalai University of Annamalai-nagar in Southern India, established by an Act of the Madras legislature of 1928 as a unitary, resident and teaching University, and made possible by the princely generosity of the Hon. Raja Sir Annamalai Chettiyar.

The *Review of Growth of Education in British India* \* by the Auxiliary Committee on Education appointed by the Indian Statutory Commission (generally referred to as the Hartog Report) gives an account both of recent progress in University education in India and of some of its main defects. In the smaller colleges and residential Universities the old system of mass teaching has been supplemented by valuable tutorial work, especially for Honours students. Research work, which barely existed in Indian Universities when the Islington Commission reported in 1915,† now finds its place in all the Indian Universities and the character of the staff in the unitary Universities and in central organizations of the affiliated Universities has been largely transformed. The laboratories and libraries have been greatly improved; "but the majority of University libraries are inadequate and all need great additions." There are signs that the University and College authorities

\* Interim Report of the Indian Statutory Commission, 1929; Cmd. 3407. H.M. Stationery Office.

† See Note by the Earl of Ronaldshay, Sir V. Chirol, and Mr. H. A. L. Fisher in Report of Royal Commission on the Public Services in India, vol. i. p. 109; Cd. 8382. H.M. Stationery Office, 1917.

are beginning to realize more fully the value of corporate life and social activities.

The Universities are turning out large numbers of graduates who cannot find employment. According to the Hartog Report "they are overcrowded with men who are not profiting either intellectually or materially by their university training"; and it is suggested that students who now go to Universities without being really fitted for higher work should be diverted in large numbers at an earlier stage to careers better suited to their capacity, and that if this were done money would be set free for more profitable educational uses, and the training of the best men could be appreciably improved.

CONSTITUTION (a) The Universities of Calcutta and the Panjab are still governed by the constitution framed under the Act of 1904 \* But in its application to Calcutta the Act of 1904 is modified by Acts II. of 1905, XI. of 1911, and VII. of 1921; and the University has, under its existing powers, created important Post-graduate Councils in Arts and in Science, each with an Executive Committee. The Academic Council recently instituted by the Panjab University has been invested with important powers subject to the general control of the Senate. The constitution of the University of Madras was modified by local Acts, VII. of 1923 and XII. of 1929, with a view to establishing a teaching and residential University at Madras, while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it (Preamble to Act of 1923). Under these Acts there were constituted an Academic Council, Faculties, and Boards of Studies. A Council of Affiliated Colleges established in 1923 was abolished in 1929. The University of Bombay is governed by Act IV. of 1928, amended in detail by subsequent Acts, especially Act XV. of 1930. The Senate comprises the Chancellor, the Vice-Chancellor, and other Fellows, the executive government being vested in a Syndicate of 18 or 19 members, including the Vice-Chancellor and the Director of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. There are also an Academic Council and a Board of Post-graduate Studies. The constitution and abolition of Faculties rests with the Senate.

(b) The new Universities in British India have a constitution modelled generally on that recommended for Calcutta by the Calcutta University Commission: (1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers; (3) the Academic Council, which consists

\* A Commission has recently been appointed to report on University education in the Panjab.

Almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the University, and for the initiation of all changes in academic matters. The executive officers of the new Universities are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now in nearly all cases introduced as the Visitor or Lord Rector, with powers of inspection. At Rangoon the three constituent bodies above mentioned are named (1) Council, (2) Executive Committee, and (3) Senate.

**ADMISSION TO THE UNIVERSITIES.** Most of the Indian Universities admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the University before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before the Intermediate Examn. and 2 after. The Universities of Allahabad, Aligarh, Dacca, Lucknow, and Agra regard the pre-Intermediate years not as part of, but as preliminary to, University study.

Applications for **AFFILIATION** are generally submitted by the Syndicate, which must be satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Universities affiliation questions are dealt with by the Senate. The powers of affiliation by the University can in some Universities only be exercised subject to the approval of Government.

**TERMS.** University examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

**DEGREE COURSES.** In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Bachelor's degree. English is generally a compulsory subject for the B.A., and in some cases for the B.Sc.; and is generally the medium of examination in all Universities except Osmania, where the medium is Urdu. Allahabad, Annamalai, Dacca, Lucknow, Madras, Mysore, and Rangoon give Honours degrees in Arts and Science requiring an additional year of study. Elsewhere the Honours degree is generally given on papers additional to those for the Pass. Agra, Nagpur, and Osmania give no Honours degrees.

The Intermediate courses are under the control of the Universities except at Agra, Allahabad, Dacca, and Lucknow, where they are controlled by Boards of Intermediate Education.

**Agriculture.** For the B.Ag., Bombay, Nagpur, and Panjab give a 4-yr. course subsequent to matriculation. For the B.Sc. (Ag.) Madras gives a 3-yr. course, and Agra a 2-yr. course after an Intermediate examn. in Agriculture.

*Forestry.* Rangoon gives a B.Sc. in Forestry after a 3 yrs' course (sometimes reduced to 2 yrs.) subsequent to an Intermediate examn. in Science. A Diploma in Forestry is given after a 2 yrs' course.

*Commerce.* The B.Com. course offered at Agra, Allahabad, Calcutta, Dacca, Lucknow, Mysore, and the Panjab is generally a 3, in some cases a 2 yr., course after passing the Intermediate examn. in Arts. In Bombay it is a 4 yr. course after Matriculation.

*Education and Teaching.* Degrees and Diplomas are given at the Universities of Aligarh, Andhra, Benares, Bombay, Calcutta, Dacca, Delhi, Mysore, Nagpur, Osmania, Panjab, Patna, and Rangoon. The titles given for approximately equivalent qualifications differ in different Universities.

A degree open to graduates in Arts and Science after a 1 yr. course is called the B.T. at Aligarh, Benares, Bombay, Calcutta, Dacca, Mysore, Nagpur, and the Panjab, B.Ed. at Andhra, L.T. at Madras, Dip.Ed. at Osmania and Patna. At Patna and Rangoon, the course for the B.Ed. extends over 2 yrs. after graduation. Lucknow gives a Diploma in Teaching to women graduates after a 1 yr. course. At Dacca and Calcutta the L.T. is not a degree, but a diploma open to undergraduates, after one and two years' training respectively, subsequent to the passing of an Intermediate examn. The Calcutta regulations are under revision.

*Engineering.* For B.Sc. (Engineering) Benares gives a 5 yr. course after Intermediate examn. in Science; for the B.E. or B.Sc. (Engineering) or B.C.E., Calcutta, Madras, Mysore, Osmania, Patna, and Rangoon have a 4 yr. course, and Bombay a 2 yr. and two terms course after Intermediate examn. in Science or equivalent examn. Benares gives a B.Sc. (Engineering) in Mining and Metallurgy after a 4 yr. course.

*Law.* The LL.B. (or B.L.) course covers 2 yrs. (Calcutta and Dacca, ordinarily 3 yrs.) after graduating in Arts or Science. Degrees in Law are not at present given at Andhra, Annamalai, and Mysore.

*Medicine.* The M.B., B.S. course generally covers 5 yrs. (Bombay, 4½ yrs., Calcutta and Rangoon, 6 yrs., Patna, 6½ yrs.), starting from an Intermediate examn. in Science or some equivalent examn. Besides the M.B., B.S. course an L.M. and S. course is given by Rangoon of 5 yrs. after Intermediate; by Osmania, of 5 yrs. after Matricn.; and an L.M.P. course, by Mysore, of 4 yrs. after Matriculation. Medical degrees are given in the Andhra, Lucknow, Madras, and Panjab Universities, as well as in those above referred to.

**HIGHER DEGREES.** The M.A. and M.Sc. (for which there are in some Universities two examns.) can generally be taken by bachelors after a 2 yrs.' course, or after 1 yr. by bachelors who have taken a 3 yr. honour course. Rangoon gives an Hons. M.A. and an Hons. M.Sc. to those who have taken such a course. In Mysore a 2 yrs.' course is compulsory for all candidates. Madras gives an "M.A. in research" and an M.Sc. degree, by thesis. In Madras the M.A. degree was formerly conferred on Honours graduates after a certain interval; and Annamalai follows the same procedure.

In Arts, the D.Litt. degree may be taken by thesis at Allahabad by



M.A.'s of 3 yrs.' standing (at Panjab by M.A.'s of 2 yrs.' standing), by thesis, after an advanced course of study of 2 yrs. At Benares it may be taken by thesis by M.A.'s of 2 yrs.' standing. At Lucknow and Mysore the degree is honorary.

The Ph.D. degree may be taken by thesis by M.A.'s of 3 yrs.' standing at Calcutta, Dacca, Lucknow, Madras, and Patna.

Allahabad gives a D Litt. in Economics under conditions similar to the D.Litt. in Arts.

The D.Sc. may be taken by M.Sc.'s (in some cases, by M.A.'s in Science) of 3 yrs.' standing, by thesis, at Allahabad, Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna; at Benares and Panjab by M.Sc.'s (or M.A.'s) of 2 yrs.' standing. At Mysore the degree is honorary.

A degree of M.Ag. may be taken, by thesis, at Bombay by a B.Ag. or L.Ag. of 3 yrs.' standing. A degree of M.Sc. (Ag.) may be taken by thesis at the Panjab by a B.Sc. (Ag.) of 2 yrs.' standing.

A degree of M.Com. may be taken at Bombay by a B.Com. of 2 yrs.' standing.

A degree of M.T. may be taken by thesis at Dacca by a B.T. of 2 yrs.' standing; and a degree of M.Ed. may be taken, similarly, at Andhra and Patna by a B.Ed. of 2 yrs.' standing.

The LL.M. (or M.L., as the case may be) of Allahabad, Benares, Bombay, Dacca, Lucknow, Madras, and the Panjab may be taken by graduates in Law of 2 yrs.' standing; in Delhi and Nagpur by those of 3 yrs.' standing. No interval is prescribed at Aligarh, Calcutta, or Patna. The LL.D. (or D.L., as the case may be) is generally given by thesis and open to LL.M.'s (or M.L.'s) of prescribed standing: at Delhi and Lucknow, 5 yrs.; Dacca, Nagpur, and the Panjab, 3 yrs.; Benares, Calcutta, Madras, and Patna, 1 yr. At Allahabad the LL.D. is given by thesis to LL.M.'s who have had 5 yrs.' professional practice.

The degrees of M.D. and M.S. (Master of Surgery) may be taken by graduates in Medicine and Surgery after intervals varying in different Universities of from 1 to 5 yrs. after graduation, mostly by examination, but in some cases by thesis; varying requirements in regard to hospital and professional practice are imposed. Bombay gives the degrees of Bachelor of Hygiene (after a 1 yr. course) and of Doctor of Hygiene (after a further 2 yr. course) to medical graduates; Madras gives a Bachelor of Sanitary Science after a 1 yr. course, and Calcutta and Lucknow give a D.P.H. after a prescribed course of study, to medical graduates.

Bombay gives a Diploma in Ophthalmology, Calcutta gives the degree of Master of Obstetrics, and Madras gives a Diploma in Midwifery to medical graduates.

At Bombay, the degree of Master of Engineering is given by thesis or examn. to Bachelors (or Licentiates) of Engineering who have practised their profession for 3 yrs. after graduation. At Calcutta, a D.Sc. in Engineering is given by thesis.

*Oriental Learning.* Besides courses for degrees in Arts in classical oriental languages and literatures (Sanskrit, Arabic, and Persian) and in vernaculars, conducted more or less on western lines, there are degrees in Oriental Learning given in some Universities with English titles, in others with oriental titles, in some with both. The Panjab has a 2 yrs.'

F.O.L. course subsequent to Matricn., followed by a 2 yr. B.O.L. (Bachelor of Oriental Learning) course and a 1 yr. M.O.L. course. A D.O.L. is open by thesis to M.O.L.'s of 1 yr.'s standing. The University also gives diplomas and "Literary Titles" in Oriental Learning. Andhra, Madras, and Annamalai give "Titles" and certificates of proficiency, and offer a degree of M.O.L., by thesis, to candidates possessing certificates of proficiency. Benares has a Faculty of Oriental Learning which confers a first degree *Madhyama Pariksha* after a 3 yrs' course, a second degree of *Shastri*, after a further 3 yrs.' course, and the degree of *Shastracharya* by thesis, 2 yrs. after the second degree.

*Theology.* Five different degrees in Hindu theology are awarded by the University of Benares, open only to Hindus after courses extending over a large number of years. Aligarh awards the degrees of Bachelor, Master, and Doctor in (Islamic) Theology, and Osmania has a 6 yr. course leading up to the B.A. in (Islamic) Theology, and a 2 yr. course for the M.A.

**COST OF LIVING.** The cost of living varies in different Universities. The total cost (according to the *Handbook of Indian Universities*), including tuition, residence, food, etc., is as follows in certain residential Universities: Aligarh, Rs. 28 to Rs. 35 p.m.; Benares, Rs. 35 to Rs. 50 p.m.; Dacca, Rs. 20 to Rs. 22 p.m.; Osmania, about Rs. 180 per annum. Exclusive of tuition, the cost of living (*i.e.* of food and residence) is stated to be in Bombay about Rs. 50 p.m.; in Calcutta, Rs. 21 to Rs. 30 p.m.; Delhi, Rs. 15 to Rs. 30 p.m.; Mysore, Rs. 200 for 9 months; Osmania, Rs. 180 per annum; Rangoon, Rs. 170 to Rs. 250 per annum.

[Note. 1 Rupee = 1s. 6d. approximately.]

**STATUS OF THE NEW UNIVERSITIES.** The Universities of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature, and those of Annamalai, Andhra, Agra, Lucknow, and Rangoon by Acts of provincial legislatures. Their degrees and exams. are recognized by the Government of India to be equal in value to those of the older Universities for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Government of India. The degrees of Mysore have been recognized by the Universities of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Government of India. Osmania and Mysore degrees have been recognized by the Government of India as equivalent to those of the Universities established by law in India.

Professor Karve's scheme for an Indian University for women with headquarters at Poona has organized there, and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines.

**NUMBER OF STUDENTS** in March 1930 in the 313 Arts and Professional (including 102 Intermediate and 2nd Grade) Colleges was 97,166, including 2689 women.

**RESIDENCE.** In 1928-29 some 31,912 students (including 922 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses. In 1929-30 the number was 33,204 (including 1013 women).

**CONFERENCES** In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Association of Indian Universities. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924. In accordance with a resolution passed by the Simla Conference, an INTER-UNIVERSITY BOARD has been formed whose present headquarters are at Mysore, the Secretary of the Board being Prof. A. R. Wadia, B.A. Camb. The chairman for the year is Sir Konkoth Ramunni Menon, Diwan Bahadur, M.A. Camb., Vice-Chancellor, University of Madras. The Inter-University Board meets annually at some University centre. Another conference of Indian Universities, on the lines of the conference held at Simla in 1924, was held at Delhi in the autumn of 1929. His Excellency the Viceroy opened the Conference. The Board publishes a Handbook of Indian Universities.

The VICEROY'S GOLD MEDAL, instituted in 1926 by Lord Irwin, is open for competition, annually, to undergraduates of any University incorporated by law in British India. It is awarded for the best essay on some practical problem of the day.

**INDIAN STUDENTS AT THE HOME UNIVERSITIES.** The Education Department of the Office of the High Commissioner for India, India House, Aldwych, London, W.C.2 (Secretary: Thomas Quayle, M.A., D.Lit. Educational Officers: P. K. Dutt, M.A., M.Sc., A.I.C.; R. M. J. Knaster, B.A.; V. I. Gaster, B.A.; N. B. Ker, M.A., LL.B.; Miss C. H. Bose, M.A.), furnishes information and advice on educational and kindred matters to Indian students who come to this country to complete or supplement their education. The Hostel at 21 Cromwell Road, South Kensington, S.W. 7, serves as a centre and meeting-place for Indian students and as a temporary residence for new arrivals. There are Local Advisers at the University of Manchester (J. K. Wood, D.Sc., College of Technology, Whitworth Street), and at Glasgow (R. M. Brown, Ph.D., B.Sc., M.I.M.E., Engineering Department, The University). At Edinburgh, J. E. Mackenzie, Ph.D., D.Sc. (King's Buildings, the University), is the University's Adviser to Indian students. At Oxford Indian students may secure information and advice from H. S. Williamson, M.A., Indian Institute, Broad Street, Secretary to the Delegacy for Oriental Students, and at Cambridge, from R. B. Whitehead, M.A., 22 Fitzwilliam Street, Secretary to the Inter-Collegiate Indian Students Committee.

Indian students who propose to proceed abroad for further study are strongly advised to consult the University Bureau or Advisory Committee of their Province, from whom they can obtain full information about British and foreign universities. The names and addresses of the secretaries are as follows: Ajmere—R. Littlehales, C.I.E., M.A., Superintendent of Education, Delhi and Ajmere-Merwara, and Secretary,

Indian Students' Advisory Board, Rajputana, Delhi; Allahabad—The Director of Public Instruction, Allahabad; Bombay—Khan Bahadur F. M. Dastur, M.A., I.S.O., University Information Bureau, University Building, Fort, Bombay; Calcutta—P. N. Ghosh, University Students' Information Bureau, Senate House, Calcutta, Dacca—M. Hasan, M.A. (Cal), B.A. (Oxon), University Students' Information Bureau, Dacca, Bengal, Delhi—S. N. Mukarji, M.A., Indian Students' Advisory Committee, St Stephen's College, Delhi; Gauhati—J. Borooah, Barr-at-Law, Indian Students' Advisory Committee, Gauhati, Assam; Lahore—M. G. Singh, M.A., Punjab University Foreign Information Bureau, Lahore; Madras—V. K. Pillai, M.A., University Students' Information Bureau, Presidency College, Madras; Mysore—Prof. J. C. Rollo, M.A., University Students' Information Bureau, Maharaja's College, University of Mysore; Nagpur—K. R. Pandya, University Information Bureau, Nagpur University, Nagpur, Patna—Jamuna Prasad, B.A., M.Sc., M.A., University Students' Information Bureau, Patna, Bihar and Orissa.

The High Commissioner for India is prepared at the request of parents and guardians in India to make arrangements for the supervision of the studies and personal welfare of a limited number of Indian students, and for the administration of funds remitted to him for the purpose. The Secretary to the Oriental Delegation at Oxford, the Secretary to the Inter-Collegiate Indian Students Committee at Cambridge, the University Adviser at Edinburgh, and the Local Adviser to Indian Students at Manchester and Glasgow, act on behalf of the High Commissioner in the case of students proposing to study at those centres. Inquiries may be addressed either direct to the addresses given above or through the Office of the High Commissioner for India, Education Department. The Department publishes the *Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*, the Fifth Edition of which was published towards the end of 1930. An annual report on the work of the Department is also published, copies of which can be obtained from the office of the High Commissioner or through the agents for the sale of Government of India publications.

The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (B. C. McEwen, Ethnam, Sandhurst, Kent) to look after and report about their progress whilst in Europe.

#### NOTE

The arrangement of Oriental names in the directory sections has been adopted for convenience of reference and for indexing purposes.

# AGRA UNIVERSITY

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES.

VICE-CHANCELLOR—LALA DIWAN CHAND, M.A., Principal, D.A.-V. College, Cawnpore.

REGISTRAR—PANDIT SHYAM SUNDAR SHARMA, M.A.

Act VIII. of 1926 of the United Provinces Legislature, which received the assent of the Governor-General on Oct. 20, 1926, provides for the establishment of a university "for the purpose of affiliating the colleges associated with the University of Allahabad . . ." so as to set it free to function as a unitary, teaching, and residential institution. It empowers the Agra University to affiliate colleges in the United Provinces, Rajputana, Central India, and Gwalior, except within the limits of the Universities of Allahabad and Lucknow, or within a radius of ten miles from the Benares Hindu University or from the Aligarh Muslim University. To supplement the work in affiliated colleges the University may institute teaching posts at selected centres.

Four categories of persons are to be eligible, subject to prescribed conditions, for degrees and other academic distinctions: (a) candidates who pass the University's examinations after pursuing an approved course at an affiliated college; (b) teachers who pass the University's examinations; (c) research workers; (d) women who have carried on private study. Lectures and instruction may be provided by the University for, and diplomas may be granted to, persons other than students of an affiliated college.

The supreme governing body of the University is the Senate, the other principal authorities being the Executive Council, Academic Board, Board of Inspection, and Faculties of Arts, Science, Law, Commerce, and Agriculture. The Vice-Chancellor, an honorary officer elected by the Senate, is the principal executive and academic officer.

Students are not eligible for admission to a degree course unless they have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces, or of an Indian University incorporated by law, or an equivalent examination.

The Act came into force on July 1, 1927, and all the constituent bodies of the Univ. have been formed. The Univ. held its first exams. in 1928.

Fourteen of the following Colleges formerly associated with the Univ. of Allahabad are now affiliated to Agra. The Government College of Agriculture at Cawnpore has also been affiliated for the B.Sc. Agric.

PUBLICATION. *Calendar* (August).

## AFFILIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc.; LL.B. Principal and Prof. of *English Lit.*—F. J. Fielden, M.A. Camb. and Lond.

AGRA, *St. John's College*. M.A.; B.Com.; M.Sc. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially

for Christians. Principal—W. E. S. Holland, M.A. Ox. Vice-Principal and Prof. of Philos. and Logic—T. D. Sully, M.A. Ox.

AJMER, *Government College*. B.A.; B.Sc. Principal—P. Seshadri, M.A. Mad.

BAREILLY COLLEGE. M.A., M.Sc., LL.B. Principal—A. C. Dutt, M.A. All, M.A. Luck, M.R.A.S. Lond.

CAWNPORE, *Christ Church College*. M.A., M.Sc. Principal—S. C. Chatterji, M.A.

CAWNPORE, *Dayanand Anglo-Vedic College*. M.A., B.Sc., LL.B., B.Com. Principal—L. Diwan Chand, M.A.

CAWNPORE, *Government Agricultural College*. B.Sc. Agric. Principal—C. Maya Das, M.A., B.Sc. Edin.

CAWNPORE, *Sanatan Dharma College of Commerce*. M.A., B.Com., LL.B. Actg. Principal—B. N. Chopra, A.I.S.A., L.A.A.

GORAKHPUR, *St. Andrew's College*. B.A. Principal—Rev. A. C. Pelly, M.A. Camb.

GWALIOR, *Victoria College*. M.A., B.Sc. Entirely supported by the State. Principal—H. M. Bull, M.A. Camb.

INDORE, *Christian College*. M.A. Principal—A. A. Scott, M.A., B.D.

INDORE, *Holkar College*. M.A.; M.Sc.; LL.B. Maintained by the State. Principal—P. Basu, M.A., Ph.D., B.L. Vice-Principal—C. A. Dobson, B.A. All.

JAIPUR, *Maharaja's College*. M.A.; B.Sc. Maintained by the State. Principal—W. Owens, M.B.E., B.A.

JODHPUR, *Jaswant College*. B.A. Principal—A. P. Cox, M.A., I.E.S. Vice-Principal—P. P. Shahani, M.A. Bom.

MEERUT COLLEGE. M.A.; B.Sc.; LL.B. Principal—Col. T. F. O'Donnell, M.C., V.D., B.A.

## THE YEAR 1931-32

STUDENTS. Full-time: 3008, including 921 graduates. Part-time: none.

DEGREES (1932). B.A., 481; M.A., 121; B.Sc., 148; M.Sc., 18; LL.B., 211; B.Com., 67; B.Sc. (Ag.), 37.

# ALIGARH MUSLIM UNIVERSITY, ALIGARH

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA IN COUNCIL.

CHANCELLOR—HIS HIGHNESS NAWAB SIKANDAR SAULAT, IFTIKHARUL  
MULK, HAJI SIR MOHD. HAMIDULLAH KHAN BAHADUR, G.C.S.I.,  
G.C.I.E., C.S.I., C.V.O., B.A., Ruler of Bhopal.

PRO-CHANCELLOR—.....

VICE-CHANCELLOR—NAWAB MASUD JANG BAHADUR DR. SYED ROSS  
MASUD, B.A. Ox., LL.D., Barr.-at-Law.

PRO-VICE-CHANCELLOR—R. B. RAMSBOTHAM, M.B.E., M.A., B.Litt.  
Ox., I.E.S.

TREASURER—NAWAB MOHD. ISMAIL KHAN

REGISTRAR—FAKHR UDDIN AHMAD, M.A., B.E.S.

HON. LIBRARIAN—MOHAMED HABIB, B.A. Ox., Barr.-at-Law.

## PROFESSORS, LECTURERS, ETC.

<i>Arabic</i>			
Spies, O., Ph.D	Prof.*	Kaul, B N, Ph D.	Reader.*
Memon, Abdul Aziz	Reader.	Shafi, S. M., B Sc. Lond.	Lectr.
Ali, Abid Ahmad, M.A., LL.B.		Uddin, S. M., M.A.	Lectr.
	Lectr.	Attaulah, S., M.A.	Lectr.

<i>Botany</i>		<i>Education</i>	
Rafiq, Ahmad, Ph.D. Camb., M.Sc.		Saiyidain, Ghulam, M.Ed. Leeds,	
Ben, B.Sc. All.	Reader.*	B.A.	Prof.*
Hyder, Asghar Ali, Ph.D Ber.,		.....	Reader.
B.Sc. All.	Lectr.	Rahman, Habibur, M.A., L.T.	
2 Demrs.		All.	Lectr.

<i>Chemistry</i>			
Hunter, R. F., M.Sc., Ph.D., D Sc.,	[Prof.*	Husain, Tajammul, B.T. Panj.,	
D.I.C., A.R.C.S., A.I.C.		M.A.	Lectr.
Haider, M., M.A. Camb., B.A. All.,		Siddiqi, W. H., B.A., L.T.	Lectr.
B.Sc. Lond.	Reader.	Hashmi, B. A., M.A., M.Ed. Leeds.	
Desai, R. D., B.A., M.Sc.	Reader.		Lectr.
Bakhsh, A., M.A., B.Sc. All.	Lectr.	<i>English</i>	
Aziz, Abdul, Ph.D.	Lectr.	.....	Prof.
Ali, B., B.Sc. All., M.Sc.	Lectr.	Harris, H. H. K., M.A. Edin.	
2 Demrs.			Reader.*

<i>Economics</i>			
Hyder, L. K., B.A. All. and		Husain, Khwaja Manzoor, B.A.	
Camb, Ph.D. Heid. (on leave)		Ox., M.A.	Reader.
	Prof.*	Ali, Mukhtar Hamid, M.A.	Lectr.
		Hasan, Syed M., M.A.	Lectr.
		Dorab, J. B., M.A.	Lectr.

Chairman of Dept.





attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 35,000 vols., besides a collection of MSS. on Oriental Lit. LABORATORIES : Physics, Chem., Botany and Zoology.

The Muslim Univ. School is a feeder to the University and a practising school for the TRAINING COLLEGE. The Univ. also maintains the Muslim University City High School run on less expensive lines, and a Tibbuj College to impart instruction in indigenous medicines of Muslim origin.

COURSES. For students who have passed the High School or Matric. Examn. of an Indian Univ. a 2 yr. Interm. course in Arts or Sci. For students who have passed the Intermediate examn. of an Indian Univ. . two-year course for the B.A. or B.Sc. ordinary and 3 yrs for B.A. or B.Sc. with honrs. One yr. for Teaching Certificate. Courses leading to M.A., M.Sc., LL.B., B.T., and Ph.D. degrees are also provided. FEES: for Tuition, Rs. 6 to Rs. 15 p.m.; Board and residence about Rs. 20 p.m.

Numerous SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 p.m. for research in Arabic, open to M.A. Two fellowships, Rs. 75 p.m. for 2 yrs. for research in Science and Arts respectively. There is a loan fund for helping poor students.

PUBLICATIONS. *Calendar* (published irregularly); *Prospectus*; *University Journal*.

## THE YEAR 1931-32

BENEFACTIONS. The Hon. Nawab Sir Mohd. Muzzammilullah Khan Saheb, Khan Bahadur, K.C.I.E., O.B.E., of Bhikampur, Rs. 5000. H.E. Maharaja Sir Kishen Pershad Bahadur, H.E.H. the Nizam's Executive Council, Hyderabad, Deccan, Rs. 10,000. Nawab Lutfud Dowla Bahadur of Hyderabad, Deccan, Rs. 10,000. Nawab Moinud Dowla Bahadur of Hyderabad, Deccan, Rs. 10,000. His Highness the Nawab of Bahawalpur, one lakh of rupees, to be paid in 5 annual instalments of Rs. 20,000. H.H. the Ruler of Bhopal, a first annual instalment of Rs. 15,000 for the Science Labs. Donations from the personal friends of the Vice-Chancellor for such funds as the Physical Culture Fund. Another friend has established 10 Sunni Theological Scholarships of Rs. 50 per month each for students in the B.Th. Course. Numerous minor gifts.

NEW BUILDINGS. New Science Labs. costing Rs. 3 lakhs finished and equipped at a further cost of Rs. 5 lakhs. Two additional Halls of Residence for students. Additions also made to the other buildings of the Univ.

NEW DEVELOPMENTS. The whole Univ. area electrified at a cost of about Rs. 2 lakhs. A new drainage scheme to cost one lakh is in hand. M.A. course started in Geog. Ph.D. classes in different Arts and Science subjects opened. New Ordinances framed for the Ph.D. and higher doctorate degrees. A Muslim Assn. for the Advancement of Science founded for the purpose of developing the spirit of original research at Aligarh and of uniting the Muslim scientists in India, Egypt, and Europe (v. App. XXIV.).

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Sir Jadunath Sarkar, the historian, Prof. Sir C. V. Raman, of Calcutta Univ., and Dr. Shafaat Ahmad Khan, Prof. of History of Allahabad Univ., lectured on their respective subjects.

STUDENTS. Full-time: total, 569, including 281 graduates.

DEGREES OBTAINED. B.A., 103; M.A., 33; LL.B., 46; B.T. (Practice), 50; B.Sc., 29; M.Sc., 12; B.T. (Theory), 57; B.Th., 1.

# UNIVERSITY OF ALLAHABAD

VISITOR—H E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND ACADEMIC COUNCIL—Mahamahopadhyaya GANGANATHA JHA, M.A., D.Litt., LL.D., Vidya Sagar.

TREASURER—RAI BAHADUR PANDIT KANHAIYA LAL, M.A., LL.B.

REGISTRAR—J. M. DAVID, B A.

PROCTOR—S. K. RUDRA, M.A.

LIBRARIAN—PARMANAND, M A.

## PROFESSORS, LECTURERS, ETC.

### *Arabic and Persian*

Siddiqi, A., M.A., Ph.D. Prof.  
Ali Nami, Syed Mohd., M.A.  
Reader.

### Lectrs. :

Ali, Syed Ishaq.  
Ahmad, Z. M. G., M.A., Ph.D.  
Rahman, Md N, M.A.  
Hasan, Saeed, M.A., Ph.D.  
1 Junr. Lectr.

### *Botany*

Mitter, J. H., M.A., B.Sc. Panj.,  
Ph.D. Camb. Prof.  
Ranjan, S., M.Sc. Camb. Reader.  
Saksena, R. K., M.Sc. Lectr.  
Srivastava, G. D., M.Sc. Lectr.  
1 part-time teacher, 2 Demrs.

### *Chemistry*

Dhar, N. R., M.Sc. Calc., D.Sc.  
Lond., I.E.S. Prof.  
Chatterji, K. P., M.Sc. Reader.  
Dutt, S. B., D.Sc. Lond. Reader.  
Taimini, I. K., M.Sc., Ph.D. Lectr.  
Ghosh, S, D Sc. Lectr.  
7 Demrs.

### *Commerce*

Ghosh, M. K., M.A., B.Com.  
Lond. (on leave) Reader.  
Bhatnagar, B. G., M.A.  
Offg. Reader.  
Chowdhury, R. C., M.Sc. Lectr.

Dubey, R. N., B Com. Lectr.  
Govil, K. L., M.A. Lectr.

### *Economics*

Thompson, C. D., M.A. Prof.  
Rudra, S. K., M.A. Camb. Reader.

### Lectrs. :

Karwal, G. D., M A. Panj.  
Jam, L. C, M A, LL B., Ph.D. (on  
leave).

Dubey, Daya Shankar, M A, LL B.  
Mehta, J. K., M A.  
Prasad, Saraswati, M.A. (temp.).  
Kaul, B. N., M.A., Ph.D. (temp.).  
Thomas, Mrs M, M.A.

### *English*

Jha, A. N., M.A. Prof.  
Pande, S. A., M.A., LL.B. Reader.  
Deb, S. C., M.A. Reader.  
Dustoor, P. E., M A Reader.

### Lectrs. :

Ojha, Damri, M.A., LL.B.  
Sircar, K. M., M.A., M.Sc.  
Misra, S. N., M.A., LL.B.  
Gupta, L. D., M.A.  
Mehrotra, K. K., M.A. (on leave).  
Bhandarkar, Miss V., M A.  
Simlai, Beni, M.A.  
Sharkar, Bhawani, M.A.  
Junr. Lectr.  
Ahsanhari, Zafarul, M.A. (Offg.).

Sahai, Raghurpati, M.A.	Mukerji, A. C., M.A.	Reader.
2 Junr. Lectrs., 1 part-time teacher.	Mukerji, N. C, M.A.	Lectr.
<i>Hindi</i>	Kaul, R. N., M.A.	Lectr.
Varma, D, M.A.	Haladar, Miss A. L, M A.	Lectr.
Shukla, D. P, B A	<i>Physics</i>	[Prof.
Tripathi, Miss C, M.A. (temp.).	Saha, M. N., D.Sc. Calc., F.R.S.	
1 Junr. Lectr.	Bhargava, S. R., M.Sc.	Reader.
<i>History</i>	Ghosh, R. N., D.Sc	Lectr.
Khan, S. A, M A., Litt D.	Deodhar, G. B, M.Sc	Lectr
Readers :	Majumdar, K., D Sc	Lectr
Tripathi, R. P., M.A., D.Sc.	6 Demrs.	
Prasad, Ishwari, M.A, LL.B., D.Litt.	<i>Political Science</i>	[Prof
Parmanand, M A.	Prasad, Beni, M.A., Ph D., D Sc.	
Saxena, B. P., M.A, Ph D	Ahmad, I., M.A.	Lectr.
Prasad, Bisheshwar, M.A.	1 Junr. Lectr., 1 part-time teacher.	
Seth, Miss S., M.A.	<i>Sanskrit</i>	
<i>Law</i>	Acharya, P. K., M.A. Calc., Ph.D ,	
.....	D.Litt. Lond., I.E.S.	Prof.
Chaudhri, S. C., M.A. Calc, LL.B	Saksena, B. R., M A., D.Litt.	
(Offg. as Prof.)		Lectr.
Jung, M. U. S., M.A., LL.D.	Misra, Umesh, M.A.	Lectr
Reader.	Chatterji, K. C, M.A.	Lectr.
1 part-time teacher.	Herlekar, Miss M. N., M.A.	Lectr.
<i>Mathematics</i>	1 Junr. Lectr.	
Banerji, A. C., M.Sc. Calc., M A.	<i>Urdu</i>	
Camb., I E.S.	Ali, Syed Zamin, M A.	Reader
Prasad, Gorakh, D Sc Edin.	Syed, M H, M A., L.T. (on leave)	
Reader.		Lectr.
Srivastava, P. L., M.A., D Phil.	Husain, S. A., M.A. (Offg.)	Lectr.
Lectrs. :	Baijal, Amarnath, M A.	(Offg ).
Prasad, B. N., M.Sc., Ph.D, D.Sc.	1 Junr. Lectr.	
Tiwari, S. G, M.A.	<i>Zoology</i>	[Prof.
Mohan, Piare, M Sc	Bhattacharya, D. R, Ph.D., D.Sc.	
1 Junr. Lectr.	Mehra, H. R., M.Sc., Ph D Camb.	Reader.
<i>Philosophy</i>	Das, R. S., M Sc., D.Sc.	Lectr.
Ranade, R. D, M.A.	Varma, S. C., M.Sc.	Lectr.
Prof.	Datta, S. K., M.Sc.	Lectr.
	2 Demrs.	

## COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission).  
Principal—C H. Rice, M.A., Ph.D., LL D 20 Tutors.

KAYASTHA PATHSHALA UNIVERSITY COLLEGE, Allahabad. Principal—  
Tara Chand, M.A., D.Phil. Ox. 7 Tutors.

CROSTHWAITE GIRLS' COLLEGE, Allahabad. Lady Principal—Miss C. R.  
Poovaiyah, M.A.

AGRICULTURAL INSTITUTE, Naini, Allahabad. Acting Principal—C. H.  
Rice, M.A., Ph.D., LL.D.

## GENERAL INFORMATION

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Thereafter it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges. In 1926 was passed the Agra University Act, providing for the transfer of the control of these colleges to the Agra Univ. The Univ. now functions as a unitary, teaching, and residential Univ.

**LIBRARY,** 80,998 vols. A section of coins is attached to the Library. **MUSEUMS** in connexion with Econ. and Com. Depts.

**FACULTIES.** Arts, Science, Law, and Commerce.

**DEGREES, ETC.** B.A., B.A. Hons., M.A., D.Litt.; B.Sc., B.Sc. Hons., B.Sc. (Ag.), M.Sc., D.Sc.; LL.B., LL.D.; D.Litt. (Econ.); B.Com.

The *courses* of study in the Univ. for the bachelor's degree cover 2 (B.A. and B.Sc. Hons.—3) yrs., following an examn. of "Intermediate" standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India and the inter. examn. of the Mysore Univ., the inter. examn. of the Board of High School and Intern. Educn., Rajputana (incl. Ajmer-Merwara, Central India, and Gwalior) are recognized for the same purpose.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated, and of the Allahabad and Mysore Univs., are recognized.

**SCHOLARSHIPS FOR GRADUATES.** 2 Empress Victoria Research Scholps., Rs. 100 p.m. (3 yrs.), and 2 Kanta Prasad Research Scholps. for Hindus, Rs. 100 p.m. (2 yrs.), for M.Sc.; Research Scholps. of Rs. 50 each (1 yr.) in History (2), Economics (2), Sanskrit (1), Hindi (1), Arabic and Persian (1), Urdu (1), Philos. (1), English (1), Politics (1), Science (5). There is a **SPECIAL FUND** for enabling students and staff to proceed to *Foreign Countries* for higher studies.

**PUBLICATIONS.** *Calendar*, Rs. 5; *Univ. Examns. Prospectus*, Re. 0.8.0.; *Univ. Minutes*, Rs. 5; *University Magazine*, Rs. 2.8 p.a.; *University Studies*, Rs. 7.8; *Indian Journal of Economics*, Rs. 12 p.a.; *Annual Report*.

## THE YEAR 1931-32

**OTHER DEVELOPMENTS.** The course for B.Sc. (Agric.) prescribed and the Agricultural Institute, Naiini, recognized as a college for B.Sc. (Agric.). Agriculture has for the present been placed under the dept. of Botany. The 1st year B.Sc. (Agric.) class started on July 1, 1932.

**EXTRA-MURAL WORK.** Many popular lectures were delivered by members of the teaching staff.

**DEATH.** Mathura Prasad Srivastava, Demr. in Chemistry.

**STUDENTS.** Full-time: total, 1746.

**DEGREES.** B.A., 240; B.A. Hons., 14; M.A., 86; D.Litt., 2; B.Sc., 83; B.Sc. Hons., 8; M.Sc., 44; D.Sc., 4; LL.B., 100; B.Com., 16.

# THE ANDHRA UNIVERSITY, WALT AIR

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—RAJA SAHIB MEHARBANI-DOSTAN RAJA SRI RAVU  
SWETACHALAPATHI RAMAKRISHNA RANGA RAO BAHADUR, RAJAH  
OF BOBBILI.

VICE-CHANCELLOR—Prof. Sir S. RADHAKRISHNAN, M.A., D.Litt.

REGISTRAR—C. D. S. CHETTI, M.A.

## UNIVERSITY PROFESSORS, LECTURERS, ETC.

### UNIVERSITY COLLEGE OF ARTS

<i>English</i>	<i>Mathematics</i>
Subba, Rao M. V. N., M.A. Lectr.	Purushottam, S., M.A. Lectr.
<i>French</i>	Ramaswami, V., B.A. Camb. Lectr.
Srinivasacharya, S. B. A. Tutor.	<i>Philosophy</i>
<i>German</i> [Tutor.	Radhakrishnan, Sir S., M.A.,
Sen, S, M A., D.Litt., D.Phil.	D.Litt. Prof.
<i>History, Economics and Politics</i>	Sen, S., M A , D.Litt., D Phil.
Coyajee, Sir J. C., B.A., LL.B.	Reader.
Prof.	Kabir, Z. A , B.A. Ox Lectr.
Venkatarangaiya, M., M.A.	<i>Telugu</i>
Reader.	Lakshmikantam, P, M.A. Lectr.
Rao, G. V., M.A., LL.B. Lectr.	Sastri, M S. Pandit.
Krishna, V. S., B.A. Ox. Lectr.	Sastri, K. V. Tempy. Pandit.

### UNIVERSITY COLLEGE OF SCIENCE AND TECHNOLOGY

<i>Physics and Chemistry</i>	Lectrs. :
Raman, Sir C. V., M.A., D.Sc ,	Rao, I R , M.A , Ph.D. Cal.
LL D., F.R S. Hon Prof.	Rao, K. R , M A., D.Sc. Lond.
	Rao, G. G., M Sc.
	Bhagavantam, S., M.Sc.

## GENERAL INFORMATION

The Act of the Madras Legislative Council constituting the Andhra Univ. "in and for the Telugu districts of the Presidency of Madras" received the assent of the Governor-General on Jan. 13, 1926, and came into force on April 26, 1926. By a later Act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affiliating jurisdiction of the Univ. : Ganjam, Vizagapatam, East Godavari, West Godavari, Kistna, Guntur, and Nellore. The Act establishes four categories of colleges : "University Colleges," providing for honrs. or post-graduate courses for higher degrees ; "First Grade Colleges," providing courses for the ordinary degrees in Arts or Science ;

"Second Grade Colleges," preparing for the Inter. Examn.; and "Special Grade Colleges," providing courses for Oriental Titles.

Among the powers of the University specified in the Act are : to promote the development of the study of Telugu, Kanarese, Urdu and Oriya, and their use as media of instruction and examination ; to institute professorships and other teaching posts ; to maintain colleges and hostels ; to erect, equip, and maintain laboratories and libraries ; to institute and provide funds for the maintenance of a publication bureau, an employment bureau, students' unions, and University Extension boards. Every student of the University must reside in a hostel or under prescribed conditions.

The supreme governing body is the Senate, by which the Vice-Chancellor, a whole-time salaried officer and principal executive, is elected (for 3 years). The other principal authorities of the University are : an executive body called the Syndicate, comprising 14 members, including the Vice-Chancellor, Financial Secretary to the Local Government, and Director of Public Instruction, Madras ; the Academic Council ; the Faculties and Boards of Studies.

**FACULTIES.** Arts, Science, Oriental Learning, Teaching, Medicine.

**ADMISSION** to Univ. Courses is by Matriculation examn. and Secondary School leaving certificate examn., the latter conducted by the Madras Government, or any other examn. recognized as equivalent thereto.

**DEGREES.** B.A., B.A. Hons. ; M.A., M.A. Hons. ; B.Ed., M.Ed. ; D Litt., D.Sc., M.B.B.S., L.M.S., M.O.L. ; B.Sc., B.Sc. Hons. ; M.Sc., M.Sc. Hons. ; K.P. (Hon. Doctorate in Oriental Learning).

**DIPLOMAS :** Titles (4 years' course) and Certificates of Proficiency in Oriental Learning.

The **EXAMINATIONS** of all Statutory Indian Univs. are recognized as equivalent to the corresponding examns of this Univ.

**PUBLICATIONS.** *University Code* (Admn., Statutes, Ordinances, Rules, Regns., and Syllabuses) ; *Annual Register* (Univ. Authorities, Text Books, Univ. Affiliated and Recognized Colls., Endowments, and Graduates) ; *Annual Report* ; *Minutes* ; *The Beginnings of Local Taxation in the Madras Presidency*, by M. Venkatarangaiya (in English) and *Lectures on Vemana*, by R. Anantakrishna Sarma (in Telugu).

**COLLEGES.** There are 2 Hons. colls., 5 first-grade colls., 5 second-grade, 1 preparing students for a Med. Degree (M.B., B.S.), and 1 preparing for the B.Ed. In addition there are 7 Oriental colleges recognized by the Univ. for the Oriental Title Examns. and Certificates of Proficiency in Oriental learning.

## CONSTITUENT HONOURS COLLEGES

**WALTAIR, UNIVERSITY COLLEGE OF ARTS.** Provides Hons. courses in Mathematics, Philosophy, Hist., Econ., Politics, and Telugu. Principal—Vice-Chancellor.

**WALTAIR, UNIVERSITY COLLEGE OF SCIENCE AND TECHNOLOGY.** Provides instruction for the present in B.Sc. Hons. Courses in Physics and Chemistry. Principal—Vice-Chancellor.

## COLLEGES AFFILIATED IN DEGREE COURSES

### Arts

**GUNTUR, Andhra Christian College.** Principal—Rev. J. Roy Strock, M.A., D.D., and 44 lecturers.

MASULIPATAM, *Union Noble College*. Principal—Rev. A. B. Johnston, M.A., and 27 lecturers.

#### Arts and Science

COCANADA, *P.R. College*. Principal—Rao Sahib V. Ramakrishna Rao, M.A., Ph D., L.T., and 33 lecturers.

RAJAHMUNDRY, *Government Arts College*. Principal—T. K. Venkatarama Ayyar, M.A., L.T., and 23 lecturers.

VIZIANAGRAM, *Maharaja's College*. Principal—K. Janaki Rao, B.A., L.T., and 33 lecturers.

#### Medicine

VIZAGAPATAM, *Medical College*. Principal—Captain J. W. Ebdon, M.D., M.S., F.R.C.S., I.M.S.

#### Education

RAJAHMUNDRY, *Government Training College*. Principal—M. S. H. Thompson, B.A., I.E.S.

### THE YEAR 1931-32

**NEW BUILDINGS.** The University acquired a site facing the sea measuring over 53 acres, together with the buildings thereon at a cost of a little over Rs. 3 lakhs. The University office is located in one of the buildings. Construction of the University College of Arts, University College of Science and Technology and Hostels begun.

**NEW DEPARTMENTS AND POSTS.** An Hons. College in Arts providing courses of instruction in Hist., Econs., Politics, and Telugu opened in July 1931. New branches in Maths. and Philos. opened in 1932. An Hons. College of Sci. and Technology providing instruction in B.Sc. Hons. in Physics and Chem. opened in 1932. A Committee appointed to frame rules and regulations for compulsory Physical Education in all the affiliated colleges.

**UNIVERSITY AND EXTENSION LECTURES.** A series of Univ. Lectures and Univ. Extension Lectures were delivered under the auspices of the Univ. during 1931-32.

**PUBLICATIONS.** *Buddhist Remains in Andhra and Andhra History*, A.D. 225-610, by K. R. Subramanian; *The World Economic Depression—A Plea for Co-operation*, by Sir J. C. Coyajee.

**STUDENTS.** Full-time: total, 3526, including 123 graduates.

**DEGREES OBTAINED.** B.A., 418; B Ed., 78; L.M. and S., 3; M.B. and B.S., 12.

**ORIENTAL TITLES.** Vidya Praveena, 12; Ubhayabhasha Praveena, 19; Munshi-i-Kaml, 2.

# ANNAMALAI UNIVERSITY, ANNAMALAI- NAGAR, MADRAS PRESIDENCY, SOUTH INDIA

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR AND FOUNDER—The Hon. RAJAH SIR S. R. M.  
ANNAMALAI CHETTIYAR OF CHETTINAD, LL.D. Madr.

VICE-CHANCELLOR—RAO BAHADUR S. E. RUNGANADHAN AVL., M.A.,  
I E S

REGISTRAR—N. VISWANATHA AYYAR, M A

LIBRARIAN—M. O. THOMAS, M A., D D.

## PROFESSORS, LECTURERS, ETC.

### *Chemistry*

Chakravarti, S. N., M.Sc., D.Phil.  
Ox. Reader.  
Sitaraman, M. L., B A., M.Sc. Cal.  
Lectr.  
Anantavaidyanathan, N., M A.  
Madr. Lectr.  
Matthew, T. B. I., M.A. Camb.  
Asst. Lectr.  
Nair, A. P. M., B.A. Asst. Lectr.

### *Economics*

..... Prof.  
Naidu, B. V. N., M.A., B.Com.,  
Ph.D. Reader.  
Ayyar, V. G. R., M A. Lectr.  
Asst. Lectrs. :  
Zacharias, C. W. B., M.A.  
Muniswami, M. K., M.A., B.L.  
Narayanan, T. K., B A.

### *English*

..... Prof.  
Mendeloff, A., B.A. Lond.  
Reader.  
Lectrs. :  
Ayyar, P. A. S., M.A. Cal., M.A.  
Madr.  
Ayyar, S. K., B.A.

Ragland, S. P., M.A.

Ayyar, M. S. D., B A.

Asst. Lectrs. :

Ayyar, A. C S., B A Hons. Madr.  
Menon, K. P. K., B A. Hons. Madr.  
Myleru, C. R., B A. Hons. Madr.  
Viswanathan, S, B A Hons. Madr.  
Ghani, Muhammad, B.A Hons.  
Madr.

### *French*

Divien, E., B.A. Asst. Lectr.

### *History*

Srinivasachari, C. S., M.A Prof.  
Nair, T. Balakrishna, M.A. Lond.  
Lectr.  
Ayyar, R. S, M.A. Lectr.  
Bhaskaran, R, B A. Hons.  
Asst. Lectr.  
Govindaswami, S. K., B A Hons.  
Asst. Lectr.

### *Mathematics*

Rao, A. Narasinga, M.A., L.T.  
Reader.  
Ayyangar, G. V. K., M.A.  
Reader.  
Pillai, S. S., B.A., M.Sc. Lectr.  
Ramamurti, B., M.A. Lectr.



Asst. Lectrs. :  
 Subrahmanyam, S., B.A.  
 Lobo, C. V., B.A.  
 Srinivasachari, M. S., B.A.

### *Philosophy*

..... Reader.  
 Ramanujachariar, R., M.A. Lectr.  
 Naidu, P. S., M.A. Asst. Lectr.  
 Srinivasan, C. T., M.A.  
 Asst. Lectr.

### *Physics*

Rao, S. Ramachandra, M.A.,  
 Ph.D. Lond. Reader.  
 Rao, N. S. Subba, M.A. Lectr.  
 Navanithakrishnan, T. P., M.A.  
 Lectr.  
 Ayyar, S. N., M.A. Asst. Lectr.  
 Viswanathan, R. K., B.A.  
 Asst. Lectr.  
 Savarinathan, S. John, B.A.

### *Sanskrit*

[Reader.  
 Pisharoti, K. Rama, M.A., L.T.  
 Sastri, V. A. R., B.A. Hons. Lectr.  
 Dikshitar, S., M.D. Lectr.  
 Sastri, R. S. V., B.A. Hons.  
 Asst. Lectr.  
 Krishnamurthi, B. N., B.A.  
 Asst. Lectr.

### *Pandits :*

Dikshitar, T. V.

Sastrigal, S. R.  
 Sastrigal, K. A. S.  
 Sastrigal, P. P.  
 Sastrigal, S. N.  
 Sastrigal, V. S.  
 Srinivasachariar, K.  
 Venkatachariar, K. S.  
 Kurup, K. K. (Malayalam).  
 Sastri, Guruswami.

### *Tamil*

Maharaj, S. V., B.Sc. Lond. Prof.  
 Pillai, R. P. S., B.A., B.L. Lectr.  
 Pillai, R. R., B.A. Asst. Lectr.

### *Pandits :*

Ayyar, N. B.  
 Ponnathuvar, N.  
 Pulavar, S. R.  
 Kandasamiar, R.  
 Pillai, A. B. H.

### *Music*

Ayyar, T. S. S. Lectr.  
 Pillai, K. P. Pandit.  
 Ayyar, M. S. S. Pandit.  
 Ayyar, G. S. Pandit.  
 Ayyar, P. S. Pandit.

### *Physical Education*

L. K. Govindarajulu, B.A., B.L.  
 Director.

## GENERAL INFORMATION

As the result of an offer by Rajah Sir S. R. M. Annamalai Chettiyar of Chettinad to transfer to a residential teaching University, if one were founded, the Sri Minakshi College for higher instruction in English, the Sri Minakshi Tamil College and the Sri Minakshi Sanskrit College which he had established and maintained, together with an endowment of 20 lakhs of rupees, the Government of Madras passed an Act in 1928 accepting the offer and providing for the establishment of the Annamalai University. Government also provided 27 lakhs of rupees towards the endowment fund, a recurring grant of one and a half lakhs a year and, subject to conditions to be agreed between them and the University, a sum of seven and a half lakhs for building and equipment.

The authorities of the University under the Act are : (1) the Senate, (2) the Academic Council, (3) the Faculties, (4) the Boards of Studies, (5) the Syndicate, (6) the Finance Committee (for a period of 10 years from May 15, 1929), and (7) the Board of Selection. The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Senate, Academic Council and Syndicate constitute the body corporate of the University. The Vice-Chancellor is a whole-time salaried

officer who holds office for 3 yrs. and is appointed by the Chancellor on the nomination of the Founder.

The courses of study and syllabuses for the several Examns. of this Univ. have been revised. The Hons. Degree Examns. and the Oriental Title Examns. in every subject are partly *viva-voce*. Provision is also made for a course of instruction in the German and French langs.

Under the Act residence in a hostel or lodgings maintained or recognized by the Univ. is compulsory on all students. The resident tutors attached to the hostel regulate attendance and exercise disciplinary control and supervision over the students. An important feature of the working of the Hostel is the close association of students in the management of the affairs of each section.

Physical Training is compulsory on all students, and weekly lectures on Physiology, Health and Hygiene are delivered during regular hours for their benefit.

**FACULTIES.** Arts, Science, and Oriental Studies.

**ADMISSION.** Holders of completed School Leaving Certificates under the S.S.L.C. scheme adopted by the Govts. of Madras and the Madras States declared eligible by the Syndicate are admitted to a course of Study in the Univ.

**DEGREES.** B.A., B.A., (Hons.); B.Sc., B.Sc. (Hons.); M.A., M.O.L. (Oriental Learning); M.Litt. and M.Sc. (research degrees).

**DIPLOMAS.** Titles in Oriental Learning and Music (Sangita Bushana Title) —4 years' course. Certificates of Proficiency in French and German and Pandits' Training Certificate—1 year Course.

**RECOGNITION OF EXAMNS. of other Univs.** Examns. of all other *Statutory* Indian Univs. are recognized for purposes of admission.

**FEES.** Tuition, per term : B.A., B.A. (Hons.), B.Sc., B.Sc. (Hons.), Rs. 36-38; Science students, Rs. 2-5 addnl., plus deposit fee, Rs. 5-15; Intermed., Rs. 28-30; Sci. Students, Rs. 2, plus deposit fee, Rs. 5. Admission, Re. 1; Gains (Phys. Training), Rs. 2; Registration of graduate for life, Rs. 5.

**BOARDS OF STUDIES.** English, Modern European Langs. (other than Engl.), Philos., Hist. and Politics, Econ., Maths., Physics, Chem., Nat. Sci., Tamil, Sanskrit, and Dravidian languages other than Tamil.

**DEANS.** C. S. Srinivasachari, M.A. (Arts); M. R. Ry. A. Narasinga Rao Avl., M.A., L.T. (Science); M. R. Ry. K. Rama Pisharoti Avl., M.A., L.T. (Oriental Studies).

**LIBRARY.** 31,000 volumes.

**LABORATORIES** (Physics, Chemistry, and Nat. Sci.). With workshops and special arrangements for practical work.

**TUTORIAL INSTRUCTION** and disciplinary supervision for all students are provided by assigning about 15 students to each member of the teaching staff.

**RESIDENCE.** Students are required to live in hostels attached to the University or in approved lodgings recognized by the University. Rent from Rs. 1.0-0 to Rs. 1.8-0 p.m.

**RESEARCH.** Studentships tenable 2 yrs., value Rs. 60 per mensem. Fellowships tenable in India and abroad. Value Rs. 125 to Rs. 150 p.m.

**PUBLICATIONS.** *Calendar* (July); *Annual Report* (April); *University Journal* (October and April).

**THE YEAR 1931-32**

**BENEFACTIONS.** Rao Bahadur S. E. Runganadhan Prize, Rs. 500 ; Kumara-raja's Multria Chhattiar's Founder's Day Prize, Rs. 1000.

**NEW BUILDINGS.** A building scheme of about 15 lakhs is being worked out. Extension of the Arts Block at a cost of Rs. 1½ lakhs ; the Vice-Chancellor Quarters, Rs. 65,000 ; construction of residential quarters for teaching staff at a cost of Rs. 45,100 ; electrification of Univ. area at a cost of Rs. 84,700 ; Convocation Hall at a cost of about Rs. 4 lakhs will be commenced by the end of 1932.

**NEW DEPARTMENTS AND POSTS.** Music and Pandits Training Sections ; Lecturers and Pandits for these sections.

**OTHER DEVELOPMENTS.** The University Union has been modelled on those of Oxford and Cambridge.

**CHANGES IN REGULATIONS.** Institution of Hons. courses in Chem. and Tamil, and of a Post-graduate course in Physics. The courses of study and syllabuses for the B.A. and B.A. (Hons.) Degrees have been revised during the year. The main features of the revised course are ; (1) a compulsory course in Engl., and the inclusion of Engl. as an optional subject ; (2) the introduction of a compulsory course of instruction and examn. in one of the languages—classical, modern European other than English or Indian ; (3) division of Arts and Science subjects, the former group leading to the B.A. and the latter to the B.Sc.

**VISITS OF MEMBERS OF OTHER UNIVS.** Dr. W. Blaxke delivered a course of lectures during the academic year.

**RETIREMENTS AND DEATHS.** Prof. K. M. Khadye (English) and Dr. Saileswar Sen (Philos.), left to work in other Universities. Prof. P. T. Srinivasa Ayyangar (History), P. K. Mahadevan (Econ.), A. Sivaprakasam Pillai (Tamil), died.

**STUDENTS.** Full-time : total, 669, including 2 graduates.

**DEGREES OBTAINED.** The second Convocation was held in the year 1932. B.A. (Hons.), B.A. and Vidwan Title.

## BENARES HINDU UNIVERSITY, BENARES, U.P.

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA, *ex officio*.

VISITOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

CHANCELLOR—H.H. THE MAHARAJAH OF BIKANIR.

PRO-CHANCELLOR—H.H. THE MAHARAJAH OF BENARES.

VICE-CHANCELLOR—Pandit MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE  
COUNCIL—Principal A. B. DHURVA, M.A., LL.B.

TREASURER—Hon. SIR RAJA MOTI CHAND, C.I.E.

REGISTRAR—Pandit G. P. MEHTA, M.A.

The University was founded in 1916. For early history, cf. *Yearbook* for 1930.

The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 1,00,000 and 75,000 respectively, are valued at Rs. 1,80,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LABORATORIES : Chem., Physics, Zool., Bot., Geol., Mining and Metallurgy. The Engineering College laboratories include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry, and motor-car repair shop; a power-house is also attached to the College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and exams., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science—Pure and Applied, Law, and Indian Med. and Surgery (Ayurveda).

DEGREES. B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., L.T. The admission qualification for Degree course (4 yrs.) in Mining or in Metallurgy is Interim Sc. examn. of an Indian Univ. or Board of Interim. Education, with Physics, Chem., and Maths.

RESIDENCE. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or

guardians. There are 7 hostels accommodating 1600 students and 84 residences for members of the staff.

**SCHOLARSHIPS.** 76 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholps.

**PUBLICATION.** *Calendar*; *Magazine* (quarterly).

## COLLEGES MAINTAINED BY THE UNIVERSITY

**CENTRAL HINDU COLLEGE.** Principal (Univ. Prof. of Sansk.)—A. B. Dhruva, M.A., LL.B. Honorary Univ. Profs.: Sir P. C. Ray, C.I.E., D.Sc. (Chem.); S. S. Bhatnagar, D.Sc. (Chem.); Sir C. V. Raman, M.A., D.Sc., F.R.S. (Phys.); N. C. Nag, M.A., F.I.C. (Chem.); B. Keightley, M.A. (Philos.); V. G. Kale, M.A. (Econ.); N. R. Dhar, M.A., D.Sc. (Phys. Chem.); Sir S. Radhakrishnan, M.A. (Phil.); G. S. Mahajan, B.A., Ph.D. (Maths.). Univ. Profs.: K. K. Mathur, B.Sc., A.R.C.S. (Geol.) Others: *Bot.*—N. K. Tiwari, M.Sc.; Bholanath Singh, D.Sc.; Y. Bharadwaja, M.Sc.; K. R. Mehta, M.Sc.; Krishna Kumar, M.Sc.; Akshayabhat Lal, M.Sc. *Chem.*—M. B. Rane, M.A.; S. K. Basu, M.Sc., Ph.D. Berl.; P. S. Varma, M.Sc.; D. N. Banerji, M.Sc.; P. N. Roy, M.Sc.; A. T. Mazumdar, M.Sc.; K. C. Banerjee, M.Sc.; S. S. Joshi, D.Sc.; M. L. Shroff, M.Sc.; K. N. Menon, Ph.D. *Chem. (Industrial)*—N. N. Godbole, B.Sc., M.A., Ph.D.; Dogar Singh (Ceramics); A. N. Ghosh, B.A.; K. C., Trigunayak, M.Sc.; K. D. Gupta, L.M.E. *Econ.*—Pran Nath, D.Sc.; G. N. Singh, M.Sc.; H. R. Soni, D.Sc.; S. V. Sipahmahani, M.A.; B. P. Adarkar, B.A. *Engl.*—U. C. Nag, M.A., Ph.D.; M. M. Desai, M.A.; J. S. Yajnik, M.A., LL.B.; S. N. Lal, M.A., LL.B.; B. L. Sahni, M.A.; G. D. Shastri, M.A., LL.B.; V. S. Tilak, M.A.; M. Prasad, M.A.; R. L. Merh, M.A.; K. R. Singh, M.A.; C. N. Menon, Ph.D. *Geology*—K. K. Mathur, B.Sc., A.R.S.M.; K. P. Rode, M.Sc.; D. K. Chakravarty, M.Sc. *Hist.*—S. N. Bhattacharya, M.A.; K. Bhattacharya, M.A.; S. V. Puntambekar, M.A. Ox.; G. D. C. Ganzuli, M.A., Ph.D.; P. Saran, M.A. *Hist. and Culture, Ancient Indian*—A. B. Dhruva, M.A., LL.B.; A. S. Altekar, M.A., D.Litt.; R. S. Tripathi, M.A., Ph.D.; B. C. Battacharya, M.A. *Indian Langs.*—*Sanskrit*—A. B. Dhruva, M.A., LL.B.; N. K. Bhattacharya, M.A.; B. Upadhyaya, M.A.; B. N. Sharma, M.A.; B. D. Mishra, M.A., LL.B. *Bengali*—R. N. Vidyabhusan. *Gujrati*—A. B. Dhruva, M.A., LL.B. *Hindi*—S. S. Das, B.A.; R. C. Shukla; Bagwan Dhu; K. P. Misra; P. D. Barathwal, M.A.; A. S. Upadhyaya. *Urdu*—Munshi Mahesh Prasad. *Maths.*—S. C. De, M.A.; S. C. Chowla, M.A., Ph.D.; V. V. Narlikar, B.A.; S. C. Das Gupta, M.A.; Jugal Kishore, M.Sc.; Subramania Shastri, M.A. *Pers. and Arabic*—M. Prasad, Maulvi Fazil; S. A. Hasan, M.A. *Philos.*—P. B. Adhikari, M.A.; S. K. Matra, M.A., Ph.D.; S. N. Dar, M.A.; B. L. Atreya, M.A., D.Litt. *Phys.*—P. K. Dutt, M.A. Canb.; B. Dasannacharya, Ph.D.; U. A. Asrani, M.Sc.; N. K. Pande, B.Sc.; C. M. Sogani, D.Sc.; P. C. Ghose, M.Sc.; B. M. Mazumdar, M.Sc.; N. C. Chatterjee, M.Sc. *Politics*—G. N. Singh, M.Sc.; S. V. Puntambekar, M.A.; M. B. Lal, M.A.; K. C. Varma, M.A. *Zoology*—A. B. Misra, D.Phil., D.Sc.; Chandra Bal, M.Sc.; K. N. Gupta, M.Sc.; R. C. Saksena, M.Sc.; S. Chatterjee, M.Sc.

**COLLEGES OF ORIENTAL LEARNING AND THEOLOGY.** Principals: O.L.—Maha. Pt. P. N. Tarkabhushan; Theol.—Pandit Vidyadhar Gour. 30 other Profs.

**TEACHERS' TRAINING COLLEGE.** Principal, Rai Bahadur Pandit Lajja Shankar Jha, B.A. 5 Assts.

**ENGINEERING COLLEGE.** Principal—C. A. King, B.Sc., A.R.C.Sc., M.I.M.E., M.I.S.E. Profs. and Teachers: H. P. Philpot, B.Sc. B. C. Chatterji, B.A.,

B.Sc., B.L., M.I.E.E.; R. S. Jain, B.Sc.; M. Pande, B.Sc., and 5 others. Arrangements have been made for holding, at the College, exams. of the City and Guilds of London Institute.

DEPARTMENT OF MINING AND METALLURGY. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C., and 6 others.

LAW COLLEGE. Hon. Profs.: Sir Tej Bahadur Sapru, K.C.S.I., M.A., LL.D. (Dean); K. N. Katju, M.A., LL.D.; A. P. Dube, M.A., B.C.L.; A. N. Sanyal, M.A., LL.B. Lond.; U. S. Bajpai, M.A., LL.B.; Wali Ullah, M.A., B.C.L., LL.D.; K. Narain Malaviya, M.A., LL.B.; Pandit Umakant Pande, B.A., LL.B.; Pandit Y. N. Upadhyaya, M.A., LL.B.; Tek Chand. Others: L. R. Siva Subramaniam, B.A., M.L. Madr; Pandit B. N. Vyas, M.A., LL.B. All; R. A. Singh, M.A., LL.B.

THE WOMEN'S COLLEGE. Principal, and Lectr, Mrs. K. Tilak, M.A. Lectrs.: Mrs. Venkatishwaran; Mrs. S. Mazumdar, M.A.; Miss K. Kolhatkar, M.A.; Miss Y. R. Manurkar, M.A.

THE YEAR 1931-32. *No return received.*

# UNIVERSITY OF BOMBAY

CHANCELLOR—H.E. THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Rev. John McKENZIE, M.A., B.D.

REGISTRAR—SUNDERRAO RAMARAO DONGERKERY, B.A., LL.B.

## GENERAL INFORMATION

Founded in 1857, the Univ. has concerned itself mainly with examinations, and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in English, History, Economics, Sociology, Sanskrit, and Mathematics. In 1919 it established a School of Economics and Sociology for research in these subjects. Extensions to University buildings, costing Rs. 8,13,000, were completed in 1923.

LIBRARY (established 1864, owing to Premchund Roychund Benefaction, Rs. 4,00,000), 35,000 vols., including Fawcett Collection (Econ.).

FACULTIES. Arts, Science (including Agric. and Engin.), Law, Medicine.

DEGREES. B.A., M.A.; B.Sc., M.Sc.; B.Com., M.Com.; B.T.; LL.B., LL.M.; M.B., B.S.; B.Hy., M.D., D.Hy., M.S.; B.Agr., M.Ag.; B.E. (Civ., Mech.), M.E. DIPLOMA in Ophthalmology (D.O.), D.Litt., D.Sc.

RECOGNITION of examns. of other Univs. : Interm. Arts and Sc. examns. of other Indian Univs. and London, and also B.A., B.Sc., LL.B. of some of the Indian Univs. (see *Handbook*).

FEES for Univ. post-grad. courses, Rs. 40 per term.

RESIDENCE. Board and lodging at Colleges generally from Rs. 40 to Rs. 75 p.m.

SCHOLARSHIPS FOR GRADUATES. In Sanskrit, Bhugwandass Purshotumdass, Rs. 720; Law, Sir Mangaldas Nathubhai, Rs. 1000 p.a. for 3 yrs.; Travelling Fellowship, Rs. 700 p.a. for 3 yrs. for Hindus; Technical educn. in England for Hindus, Rs. 2000 p.a. for 3 yrs.; Springer Research Scholp. Lectureships : Wilson Philological, Rs. 750 (6 cold weather lectures); Bhagvanlal Indraj, Rs. 1000 (6 lectures on Indian Epig., etc.); Bhimrao Ramrao Research Scholp., Rs. 2400 p.a. for 3 years. The Sir Pherozeshah M. Mehta Research Scholarship, Rs. 850 p.a. for 3 years for research in History or Economics.

Sir Currimbhoy Ebrahim endowment (3½ p.c. Govt. securities, nominal value, Rs. 10,00,000) for scholarships by way of advances (repayable) to Mahomedan students going to foreign countries for higher studies in Medicine, Philology, Ancient History, Arabic, Architecture, Town-planning, and Technological and Industrial subjects and for the superior services : Rs. 3600 p.a. for 3 yrs.

The Edaljee Dinshaw Scholarships—14 scholarships of the aggregate value of Rs. 25,000 p.a. tenable for 3 years, and open to members of the Parsi Community under certain conditions.

INSPECTION OF COLLEGES is conducted by means of committees, aided by an assessor from beyond the Presidency.

INSPECTION OF SCHOOLS applying for recognition for purposes of the Matriculation examn. is arranged for by the Syndicate.

PUBLICATIONS. *Handbook* (July), Rs. 3; *Calendar* (Dec.), Rs. 4; *Examination Papers*, Rs. 2.

#### UNIVERSITY SCHOOL OF ECONOMICS AND SOCIOLOGY

Prof. of Economics—C. N. Vakil, M.A., M.Sc. Lond.; Reader—Dwarkanath Ghosh, M.A.

Readers in Sociology—G. S. Ghurye, M.A., Ph.D. Camb.; N. A. Toothi, D.Phil. Ox., B.A.

WILSON PHILOLOGICAL LECTURER. V. K. Rajwade, M.A.

### AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, *Gujarat College* (Govt.). Recognized in courses for B.A., M.A., B.Sc. Principal—G. F. Shirras, M.A. Aberd., F.S.S. Profs.: *Botany*—S. L. Ajrekar, B.A. *Chem.*—D. D. Kanga, M.A. *English*—S. S. Bhandarkar, B.A.; R. N. Welingkar, B.A. Ox. *French*—S. P. Taraporewala, M.A., LL.B. *Gujarati*—K. H. Dhurva, D.B., B.A. *Hist.*—M. S. Commissariat, M.A.; S. G. Deshpande; M.A. *Maths.*—S. M. Shah, M.A. *Persian*—M. E. Namazi, B.A. *Physics*—V. B. Divatia, B.A. Camb., M.A. *Sansk.*—K. V. Anhyankar, M.A. *Zoology*—J. J. Asana, M.A. 10 other Asst. Lectrs.

AHMEDABAD, *Law College*. Under control of the Gujarat Law Society. Principal—D. S. Sethna, M.A. 7 other Profs.

BARODA, *College* (State). In courses for M.A., M.Sc., B.A., B.Sc. Principal—S. G. Burrow, B.Sc. Lond., A.R.C.S. Profs.: *Biol.*—S. V. Shevde, B.Sc. *Chem.*—K. G. Naik, M.A., D.Sc., D.I.C. Lond.; M. D. Awasare, B.A., M.Sc. *Engl.*—Prof. P. C. Romans, M.A. Camb.; A. X. Soares, M.A., LL.B.; G. F. Williams, B.A. Camb.; S. M. Wadia, M.A. *Hist. and Pol. Econ.*—J. M. Mehta, M.A. Ox.; K. H. Kamdar, M.A. *Logic and Mor. Philos.*—A. K. Trivedi, M.A., LL.B.; M. A. Buch, M.A. *Maths.*—Gajanan G. Pendse, M.A.; A. C. Mukherjee, M.A.; B. Sengupta, M.A. Calc., B.L. *Pers.*—M. A. Kazi, M.A. *Phys.*—S. G. Burrow, B.Sc. Lond.; N. K. Apte, M.A., B.Sc. *Sansk.*—B. C. Lele, M.A., Ph.D. 7 other Lectrs., etc.

BHAVNAGAR, *Samaldas College* (State). In B.A. courses. Principal, and Prof. of *Engl. and Hist.*—T. K. Shahani, M.A. 10 other Profs., 1 Lectr.

BOMBAY, *Elphinstone College* (Govt.). In Arts. Principal, and Prof. of *English Lit.*—H. Hamill, B.A. Belfast. Other Profs.: C. R. Shah, M.A. *French*—V. G. Rao, B.A. Camb. *Hist. and Pol. Econ.*—S. G. Panandikar, M.A., Ph.D. Lond.; R. P. Patwardhan, B.A. Ox. *Logic and Mor. Philos.*—J. C. P. D'Andrade, M.A., LL.B.; B. N. Seal, B.A. Camb. *Maths.*—P. S. Katti, M.A. Camb. *Pers.*—N. D. Minocherhomji, B.A. *Sansk.*—A. B. Gajendragadkar, M.A., and 7 others.

BOMBAY, *Grant Medical College* (Govt.). In Med. and in B.Sc. courses. Dean, and Prof. of *Physiol. and Histol.*—Major S. L. Bhatia, M.D. Camb., I.M.S. Profs.: *Bact.*—P. A. Dalal, L.M. & S., D.T.M. & H. Camb. *Med. Jurisprudence*—W. Nunan, B.A., M.D. Dub. *Med.*—Lt.-Col. S. S. Vazifdar, M.R.C.P., I.M.S. *Mat. Med. and Pharmacy*—Sorab K. Engineer, O.B.E., F.R.C.P.S., F.C.P.S. *Midw. and Dis. of Women and Children*—Major W. C. Spackman, M.B., F.R.C.S. *Surg.*—S. R. Moolgavkar, F.R.C.S. *Ophth.*—



J. N. Duggan, O.B.E., L.M. & S., D.O., M.S. Ox. *Phys.*—J. A. D'Souza, B.A., L.M. and S. *Operative Surg.*—V. L. Parmar, M.B., B.S., F.R.C.S. *Path.*—Raghavendra Rowe, M.D., D.Sc. Lond. *Skin Dis.*—C. Fernandez, M.D. *Laryng., etc.*—S. H. Modi, F.R.C.S. *Anæsth.*—J. R. Jagose, L.M. and S., D.T.M. Liv. *Elec. Therap.*—P. M. Desai, M.R.C.S., L.R.C.P., D.M.R.E. Camb. *Hygiene*—H. D. Khote, M.B., B.S., M.R.C.P., D.P.H. *Dentistry*—J. J. Modi, L.M. & S., L.D.S. Eng. *Anat.*—R. C. Motwani, M.S. 4 Asst. Profs.

**BOMBAY, Government Law College.** Principal—A. A. Fyzee, M.A. Camb., LL.B. Profs.: Miss Mithibai A. Tata, B.A., M.Sc. Lond.; R. Mathalane, B.A., LL.B. Camb.; T. T. Barodawalla, B.A., LL.B. Lond.; Y. B. Rege, B.A., LL.B.; V. D. Limaye, B.A., LL.B.; G. S. C. Brown, B.A. Camb.; T. N. Valavalkar, B.A., LL.B.; A. A. Adarkar, B.A., LL.B.; A. B. Vaidya, B.A., LL.B.

**BOMBAY, Ismail College, Andheri (Govt.).** In Arts and Sc. Principal, and Prof. of *Persian*—M. B. Rihman, M.A., Ph.D. Camb. *Eng.*—F. Correa-Afonso, M.A., LL.B. 3 other Profs.

**BOMBAY, St. Xavier's College (S.J.).** In Arts for B.A. and M.A.; in Science for B.Sc. and M.Sc. Principal, and Prof. of *Chem.*—Rev. F. J. Sacasa, S.J. Other Profs: *Biol.*—J. P. Mullan, M.A.; Rev. G. Palacios, S.J., and 2 others. *Chem.*—J. F. Caus, and 4 others. *Engl. Lit.*—J. Fell, and 2 others. *French Lit.*—W. A. Phillips, O.A., and another. *Geology*—A. S. Kalapesi, B.A., B.Sc. (on leave). *Hebrew*—E. M. Ezekiel, B.A., LL.B. *Hist.*—H. Heras, A. C. Fernandez, M.A., E. Kaufmann. *Latin*—A. L. M. Menezes, M.A. *Maths.*—H. Rafael, K. G. Datar, M.A., LL.B., and another. *Persian and Arabic*—Syed M. S. Reza. *Philos.*—M. Sola, M.A., Ph.D. *Physics*—R. Rafael, S.J. *Sansk.*—K. M. Shembaynekar, M.A.

**BOMBAY, Wilson College (U.F. Church of Scotland).** In Arts; in Science for M.Sc. Principal, and Prof. of *Philos.*—J. McKenzie, M.A. Aberd. Other Profs.: *Biol.*—M. Ezekiel, M.Sc.; V. N. Hate, B.Sc. *Chem.*—A. R. Normand, M.A., B.Sc., Ph.D. Edin. *Econ.*—J. Kellock, M.A. *Engl. and Latin*—Rev. J. B. Primrose, M.A. *Engl. Lit.*—R. D. Choksi, M.A.; J. Mackintosh, M.A. Edin. *French*—Miss P. S. Harley, B.A. Ox.; B. M. Mehta, M.A. *Maths.*—J. McLean, M.A., B.Sc. Aberd. *Persian*—M. Ahmed, M.A. Calc. *Philos.*—B. P. Hivale, M.A., Ph.D. *Philos. and Hist.*—P. A. Wadia, M.A. *Physics*—H. J. Taylor, M.Sc.; D. B. Naik, M.A., B.Sc., LL.B. *Sansk.*—Hari I. Velankar, M.A. 15 other Teachers.

**BOMBAY, Cama and Allbless Hospitals.** In Midwifery courses for the M.D.

**BOMBAY, Sydenham College of Commerce and Economics (Govt.).** In Arts for B.Com. and M.Com. Acting Principal, and Prof. of *Engl. and Indian Cotton Ind.*—M. J. Antia, M.A., LL.B. Camb. *Econ.*—R. M. Joshi, M.A., LL.B., B.Sc. Lond. *Statistics*—H. L. Kaji, M.A., B.Sc. Prof. of *Merc. Law*—Y. B. Rege, B.A., LL.B. *Accounting and Auditing*—S. S. Engineer, B.A., F.S.A.A. Prof. of *Econ. Hist. and Admin.*—Ahmad Mukhtar, M.A., Ph.D. *Actuarial Science*—L. S. Vaidyanathan, M.A., F.I.A. 5 other Teachers.

**BOMBAY, Secondary Training College (Govt.).** Trains graduates in Arts for the B.T. degree. Principal, H. V. Hampton, M.A., Dip. Ed. Dublin, and 5 other Lectrs.

**BOMBAY, Municipal Laboratory.** In Chem. courses for the B.Hy. examn.

**BOMBAY, Royal Institute of Science (Govt.).** In Science for B.Sc. and M.Sc. Principal, and Prof. of *Org. Chem.*—T. S. Wheeler, B.Sc., Ph.D., F.I.C. Other Profs.: *Phys.*—G. R. Paranjpe, M.Sc. *Zool.*—P. R. Awati, B.A. Camb.,

D.I.C., F.E.D. *Bot.*—R. H. Dastur, M.Sc. *Bom. Maths.*—K. R. Gunjkar, B.Sc., M.A. *Camb. Inorg. and Phys. Chem.*—Mata Prasad, D.Sc., and 12 Asst. Lectrs.

BOMBAY, *Seth G. S. Medical College* (Munic.). In Medicine. Dean and Prof. of *Med.*—J. N. Mehta, M.D., M.R.C.P. Profs.: *Path. and Bact.*—V. R. Khanolkar, M.D., B.Sc. *Anat.*—R. P. Koppihar, M.S. *Physiol.*—S. P. Niyogi, M.Sc., M.B. *Pharm. and Mat. Med.*—A. S. Paranjpe, M.D., D.T.M., Ch.B. 21 Honorary Lecturers.

DHARWAR, *Karnatak College* (Govt.). In Arts and Sc. Principal, and Prof. of *Indian Hist. and Econ.*—A. C. Farran, B.A. *Dub.* Other Profs.: *English*—N. S. Takakhav, M.A. *Econ.*—S. K. Muranjan, M.A. *Sansk.*—V. G. Bhat, M.A. *Camb. Pers.*—A. M. Moulvi, M.A. *Maths*—D. P. Patrawali, LL.B. *Camb. Logic and Philos.*—A. D. Dhopeshwarkar, M.A., LL.B. 13 Lectrs. and Demrs.

HYDERABAD (SIND), *Dayaram Gidumal National College*. In Arts. Actg. Principal, and Prof. of *Philos. and Log.*—B. R. Kumar, M.A. 7 other Profs.

JUNAGADH, *Bahauddin College* (State). In Arts. Principal, and Prof. of *French*.—C. Saldanha, M.A. Other Profs.: *Engl.*—K. L. Oza, M.A. *Maths.*—D. M. Mehta, M.A., Ph.D. *Pers.*—M. H. Tirmizy. *Pers. and Urdu.*—G. S. Bukhari, M.A. *Sansk.*—N. B. Purohit, M.A.; S. G. Shastri, M.A., LL.B. *Science*—Vasudev S. Ghurye, M.A. *Hist. and Pol. Econ.*—M. J. Pathakji, M.A., LL.B. 3 Lectrs.

KARACHI, *Dayaram Jethmal Sind College*. Under control of the Sind Collegiate Board. In Arts; in Science for B.Sc. Principal, and Prof. of *Phys.*—S. B. Butani, M.A., B.Sc. Other Profs.: *Biol.*—M. G. Punvani, B.A., M.B. *Chem.*—J. V. Lakhani, M.Sc. *Engl.*—T. M. Advani, M.A., LL.B. *Hist.*—D. T. Mariwalla, M.A. *Philos.*—G. G. Kewalramani, M.A., LL.B. *Maths.*—A. L. Shaikh, B.A., B.Sc. *Pers.*—Hotchand M. Gurbaxani, M.A. 6 other Teachers.

KARACHI, *Nadirshaw E. Dinshaw Civil Engineering College*. Under control of the Sind Collegiate Board. Principal, and Prof. of *Engin.*—G. N. Gokhale, B.Sc., A.M.I.E. Vice-Principal, and Prof. of *Struct. Engin.*—S. B. Junnarkar, B.Sc. *Lond. Engin.*—M. H. Advani and 8 other Teachers.

KARACHI, *Law College*. Under control of the Sind Collegiate Board. Principal—Charles M. Lobo, B.A., LL.B. 9 other Profs.

KOLHAPUR, *Rajaram College* (State). In Arts (up to B.A. Hons.) and in Science for Inter. Sci. Principal, and Prof. of *Hist. and Econ.*—Balkrishna, M.A. *Panj.*, Ph.D. *Lond.* 12 other Profs., etc.

NASIK, *H.P.T. College*. In Arts. Under control of the Gokhale Educn. Soc. Principal, and Prof. of *History*—T. A. Kulkarni, B.A. 8 other Profs.

POONA, *Deccan College* (Govt.). In Arts; in Science for Inter. Sc. Course. Principal, and Prof. of *Engl.*—H. G. Rawlinson, C.I.E., M.A. *Camb.* Other Profs.: *Engl.*—E. A. Wodchouse, M.A. *Hist. and Econ.*—S. G. Beri, M.A. *Edin.* and *Bom. Maths.*—M. L. Chandratroya, M.A. *Pers.*—A. K. S. Shaikh, M.A. *Sansk.*—S. K. Belvalkar, Ph.D. *Harv.*, M.A. 7 other Teachers.

POONA, *Fergusson College*. In Arts; in Science for B.Sc. Under control of the Deccan Educn. Soc. Principal, and Prof. of *Maths.*—G. S. Mahajani, B.A. Other Profs.: *Bot. and Zool.*—Dhundiraj L. Dixit, B.A. *Chem.*—G. B. Kolhatkar, M.A.; M.K. Joshi, M.A.; D. D. Karve, Ph.D. *Engl.*—S. K. Khandekar, M.A. *Engl. and Marathi*—D. V. Shidore, M.A. *Nag.*, B.A. *Engl.*—Ganesh H. Kelkar, B.A. *Camb.*, M.A. *German*—S. B. Hudlikar, M.A., Ph.D. *Hist. and Pol. Econ.*—D. G. Karve, M.A. *Hist.*—S. R. Kanitkar,

M.A. *Maths.*—V. B. Naik, M.A.; G. S. Mahajani, M.A. *Philos.*—G. C. Bhate, M.A.; N. G. Damle, M.A. *Sansk., etc.*—P. L. Vaidya, M.A. Cal., D. ès L. Paris, B.A. *Pers.*—B. D. Verma, M.A. Allah. 17 other Teachers.

POONA, *Agricultural College* (Govt.). In B.Ag. courses. A College Diploma course is also provided. Principal, and Prof. of *Botany*—W. Burns, D.Sc. *Agric. Econ.*—P. C. Patil, R.B., M.Sc. *Chem. and Geol.*—D. L. Sahasrabudhe, R.B., M.Sc., M.A. *Agric.*—V. G. Gokhale, L.Ag. *Entom.*—T. N. Jhaveri. *Hort.*—G. S. Cheema. *Agric. Engin., etc.*—J. P. Trivedi, L.C.E. 21 other Teachers.

POONA, *College of Engineering* (Govt.). In Engin. (Civ. and Mech.) courses. Principal, and Prof. of *Engin.*—C. Graham Smith, O.B.E., V.D., A.C.G.I., Other Profs.: *Struct. Design*—H. P. Jordan, M.Sc. *Elec. Engin.*—Shiv Narayan, M.A., B.Sc. Panj., M.Sc., B.E. (Union U.S.A.), M.A.I.E.E. *Civil Eng.*—P. G. Dani, B.A. Bom., B.Sc. Lond., A.C.G.I., A.M.Inst.C.E. *Chem. and Geol.*—G. G. Narke, M.A. Calc., M.Sc. Manc. *Mech. Engin.*—A. David, B.Sc., M.E., A.M.I.E. 7 Lectrs.

POONA, *Sir Parashurambhau College*. In Arts; in Science for B.Sc. Under control of Shikshana Prasarak Mandal. Principal, and Professor of *Econ. and Hist.*—R. P. Sabnis, M.A. Camb. Other Profs.: *Engl. and Sansk.*—R. D. Karmarkar, M.A. *Engl.*—R. K. Lagu, M.A. *Maths.*—T. B. Hardikar, M.A. *Philos.*—N. G. Naralkar, M.A., L.T.; S. V. Dandekar, M.A. *Marathi*—D. V. Potdar, B.A. *Physics*—V. K. Bhagwat, M.Sc., Ph.D. 11 other Teachers.

POONA, *Poona Law College*. Under control of the Indian Law Society. Principal—J. R. Gharpure, B.A., LL.B. (Hons.). 8 other Profs.

SANGLI, *Willington College*. In Arts. Under control of the Deccan Educn. Society, Poona. Principal and Prof. of *Hist. and Econ.*—P. M. Limaye, M.A. 8 other Profs.

SURAT, *M.T.B. College*. In Arts. Under control of Sarvajanic Educn. Soc., Surat. Principal, and Prof. of *Maths.*—N. M. Shah, M.A. Camb. 14 other Profs.

## THE YEAR 1931-32

BENEFACTIONS. From Mr. D. R. Naik, a scholarship for the best student at the Matricn Examn. in memory of his mother. From the Dr. Y. G. Nadgir Scholarship Committee, a scholarship for the best candidate in Anat. and Embryol. at the first M.B., B.S. Examn. An electric clock from Sir K. Pranchand and Mr M. Pranchand.

VISITS FROM TEACHERS AT OTHER UNIVS. Sir C. V. Raman, F.R.S. (Calcutta), lectured. Dr. K. Nag, visiting Prof. (Inst. of Intern. Edu., New York), gave 5 lectures on "Cultural History of the Pala Empire of Bengal." Dr. Elie Faure, French historian, lectured on "Hindu Sculpture." Mr. K. de B. Codrington (Royal Anthropological Institute) lectured on "Indian Architecture and Sculpture."

DEATHS. Rev. Dr. D. Mackichan, Hon. Principal of Wilson Coll. and a former Vice-Chancellor; Sir Patrick Geddes, former Prof. of Sociology in the Univ.

STUDENTS. Full-time: 13,670, including 1563 graduates. Part-time: 1172, including 808 graduates.

DEGREES. B.A., 935; M.A., 72; B.Com., 79; M.Com., 2; B.T., 75; B.Sc., 326; M.Sc., 25; B.Ag., 58; B.E. (Civil), 89; B.E. (Mech.), 8; I.L.B., 394; LL.M., 2; M.B., B.S., 148; B.Hy., 4; M.D., 3; M.S., 6; D.O., 3.

# UNIVERSITY OF CALCUTTA

CHANCELLOR—H E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Sir HASSAN SUHRAWARDY, O B.E., M D., F R C S.I., D P H.

PRESIDENT, POST-GRADUATE COUNCIL—Prof. PRAMATHANATH BANERJEA, M A., D.Sc. (Arts); Sir NILRATAN SIRCAR, Kt., M A., M.D., LL.D., D.C.L. (Science).

REGISTRAR—A. N MUKHERJEE, M A., Ph D.

CONTROLLER OF EXAMINATIONS—N N. SEN, M.A., B.Sc.

INSPECTOR OF COLLEGES—H. C. MOOKERJEE, M.A., Ph.D

SECRETARY TO THE COUNCILS FOR POST-GRADUATE STUDIES IN ARTS AND SCIENCE—S C GHOSH, M.A.

## UNIVERSITY PROFESSORS

*Agriculture*  
..... G. P. Singh Prof.

*Art : Indian Fine Arts*  
Suhrawardy, S, B.A. Ox. Prof.

*Botany*  
Agarkar, S. P., M.A., Ph.D.  
Berlin Sir R. B. Ghosh Prof.

*Chemistry*  
Ray, Sir P. C., Kt, C.I.E., D.Sc.  
Lond., Ph.D., F.C.S.

Sir T. N. Palit Prof.  
Mitter, P. C., M.A, Ph.D. Berl.  
Sir R. B. Ghosh Prof.

Sen, H. K., M.A., D.Sc. Lond.  
Sir R. B. Ghosh Prof. of  
Applied C

Mookerjee, J. N., D.Sc. Lond.  
G. P. Singh Prof.

*Economics*  
Banerjea, P N., M.A., D.Sc. Lond.  
Minto Prof.

*English*  
Banerjee, J. G., M.A. Prof.  
Maitra, H. C., M.A. Prof.  
Banerjea, J. R., M.A., B.L. Prof.

*History and Culture, Ancient Indian*  
Bhandarkar, D. R., M.A., Ph.D.  
Carmichael Prof.

*History, Mediæval and Modern Indian*  
Sen, S. N., M.A. Ph.D., B.Litt.  
Ox. Prof.

*Indian Vernaculars*  
Tagore, Rabindranath, D Litt.,  
M L. Special Prof.

*Islamic Studies*  
Siddique, Mahammad Zubair,  
M A., Ph D. Asutosh Prof.

*Mathematics*  
Prasad, Ganesh, D.Sc. Lond.  
(Higher M.) Hardinge Prof.  
Sen, N., D.Sc. (Applied M)  
Sir R. B. Ghosh Prof

*Mental and Moral Science*  
Radhakrishnan, Sir S., M A.,  
D Litt.

George V. Prof (on leave).  
Halder, H. L, M A, Ph.D.  
George V. Prof.  
Urquhart, W. S., M A., D.Litt.

*Pali*  
Barua, B. M., M.A., D.Litt. Lond.  
Prof.

*Phonetics and Indian Linguistics*  
Chatterjee, S. K., M.A., D.Litt.  
Lond. G. P. Singh Prof.

<i>Physics</i>		<i>Physiology</i>	
.....	Palit Prof.	Mahalanobis, S. C., B.Sc., F.R.S.E.	Prof.
Bose, D. M., M.A., Ph.D.	Berlin		
	Sir R. B. Ghosh Prof.		
Ghosh, Phanindranath, M.A.,		<i>Sanskrit</i>	
Ph.D., D.Sc. Lond.		Sastri, Mahamahopadhyay Bha-	
Sir R. B. Ghosh Prof. of		gabatkumar, M.A., Ph.D.	
Applied P.		Asutosh Prof.	
Mitra, S. K., D.Sc.		<i>Zoology</i>	
G. P. Singh Prof.		Das, B. K., D.Sc.	Prof.

POST-GRADUATE TEACHERS IN ARTS. *Economics*, 23; *English*, 17; *History*, including *History and Culture, Ancient Indian*, 30; *Indian Vernaculars*, 21; *Mathematics, Pure*, 12; *Sanskrit*, 23; *Pali*, 10; *Persian and Arabic*, 8; *Philology, Comp.*, 3; *Philosophy*, 18; *Psychology, Expl.*, 7; *Anthropology*, 9; *Commerce*, 22.

POST-GRADUATE TEACHERS IN SCIENCE. *Botany*, 4; *Chemistry*, 17; *Geology*, 4; *Mathematics, Applied*, 9; *Physics*, 18; *Physiology*, 6; *Zoology*, 6.

UNIVERSITY LAW COLLEGE. Principal—S. C. Bagchi, B.A., LL.D. Vice-Principal—B. M. Majumdar, M.A., B.L. Profs. and Lectrs : *C.P. Code and Evidence*—Birajmohan Majumdar, M.A., B.L., and 3 others. *Crim. L.*—4. *Equity*—The Principal and 3. *Hindu L. and Const. L.*—J. P. Sarbadhikary, M.A., B.L., and 6. *Jurispr. and Roman L.*—Karunamay Basu, M.A., B.L., and 7. *Land Laws*—4. *Real Property, Contracts and Torts*—8. *T.P. Act, Mahom., and Pers. L.*—8.

## GENERAL INFORMATION

Founded in 1857, this Univ. has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909. In 1917 a new scheme for post-graduate teaching came into operation under which all students who desire instruction in the M.A. or M.Sc. courses in Calcutta must be registered in the Senate House as Univ. students. A Commission—Chairman, Sir Michael Sadler, K.C.S.I.—appointed in Sept. 1917, presented a comprehensive report and a series of important recommendations in March 1919, to which little effect has so far been given otherwise than by the creation of an independent University at Dacca in 1920–21. Teaching in all the subjects for the B.Com. examn, including French, German, and other modern languages, Arabic, Pali, Persian, Tibetan, Chinese, and Japanese, is provided by the Univ.

Government grants from 1912 to 1931 amounted to Rs. 70,54,107, including Rs. 7,64,460 for endowment of chairs, and Rs. 14,77,794 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 62,91,200.

The Univ. buildings (expenditure on which from 1912 to 1931 amounted to Rs. 38,07,111) include a Senate House, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ. Press, the Asutosh Building (Rs. 10,25,111) for post-graduate classes in Arts, post-graduate offices and lending library, and two palatial buildings for the teaching of post-graduate Science courses. LABORATORIES (in Univ. Coll. of Science): Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., Agric., Geol., etc.

FACULTIES. Arts, Science, Law, Medicine, Engineering. The Affiliated

Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan).

DEGREES, ETC. B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.Com.; B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.Sc. (Public Health), D.P.H.; B.E., D.Sc. (Engn.).

STUDENTS' WELFARE. Principals of Colls. and specialists in physical edn. deal with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. Military Training is provided for a Univ. Corps recruited from affiliated colleges. All 1st yr students in Calcutta Colls. are examined.

RESEARCH STUDENTSHIPS, ETC. Premchand Roychand, Rs. 2400 p.a., tenable for 2 yrs., awarded annually, 1 in Lit. and 1 in Science subject; Sreegopal Basumallik, Rs. 4000 in Vedanta (compared with Western) Philosophy; Durbhanga, Rs. 600 in Med.; Sir R. B. Ghosh, Rs. 900, 8 annually to Science students to be attached to the Sir R. B. G. Profs.; Guruprasanna Ghosh, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or Europe or America (Rs. 2000) by Bengal Hindus; Palit., Rs. 1,00,000 endowment for research or investigation out of India: Sir R. B. Ghosh Travelling Fellowships (3), Rs. 2,50,000 endowment for research or investigation out of India for 1 yr.; Radhikamohan Educational Scholarship (1), Rs. 1,50,000 endowment for advanced study abroad tenable for 2 yrs. by Bengali Brahmins; Jubilee post-graduate scholarships in literary and scientific subjects, Rs. 32 p.m. for 2 yrs., one in each subject of the Honours B.A., B.Sc., and B.Com. exams.; Sir P. C. Ray, annual prize for research in Chemistry, by a graduate student of the Univ. working in the College of Science, gold medal (value Rs. 100) and Rs. 500 in cash; Sir B. K. Bose, annual scholarship of Rs. 40 p.m. for a graduate student of the Univ. College of Science; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000; Tagore Professorship in Law, Rs. 9000; Kamala Lectureship in Indian Life and Thought, Rs. 1000 and gold medal. Numerous other lectureships, scholarships, medals, and prizes.

LIBRARY. The Library contains over 100,000 vols. and a collection of Bengali and Tibetan MSS.

PUBLICATIONS. *Calendar*, Rs. 7.8; *Univ. Regulations*, Rs. 3.12; *Proceedings of Councils of Post-graduate Teaching*, 1918-1927, Rs. 3 each year; *Convocation Addresses*, 1915-1923, Rs. 5, 1858-1923, Rs. 10; *Calcutta Review*, monthly, annual subsn., Rs. 7 inland, Rs. 10 foreign; *Journals* of Depts. of Letters and of Science, Rs. 9 per vol.; Sir Asutosh Mookerjee Silver Jubilee volumes—vols. i., ii., and vol. iii. in 3 parts, Rs. 11-4 each; *Bulletin of Math. Society*, etc. Other publications (about 200 vols) on Ancient Indian Culture, History, Philosophy, Law, Economics, Mathematics, Language, and Science.

## AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[B.A., M.A., B.Sc., M.Sc., B.Com., etc.=affiliated up to B.A., M.A., etc., standard.]

BAGERHAT COLLEGE. B.A. Principal—K. C. Nag, M.A. 21 other Teachers.

BANKURA, *Wesleyan College*. B.A. and B.Sc. Principal—A. R. Spooner, B.A. Lond. 22 other Teachers.

BARISAL, *Brojomohan College*. B.A. and B.Sc. Principal, and Prof. of Maths.—S. C. Chatterjee, M.A. 35 other Teachers.

BELGACHIA, *Carmichael Medical College*. M.B. Principal—Kedarnath Das, C.I.E., M.D. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Physiol.*—S. C. Mahalanobis, B.Sc., F.R.S.E. *Mat. Med. and Pharmac.*—P. Nandi, M.D. *Midw.*—K. N. Das, C.I.E., M.D.; N. Basu, L.M.S. *Surg.*—M. Mitra, M.D. *Brux.*, F.R.C.S. Edin. *Med.*—B. C. Roy, M.D., M.R.C.P., F.R.C.S. Eng. *Jurispr.*—Major B. G. Mallya, I.M.S. *Op. Surg.*—L. M. Banerjee, M.S. Calc., F.R.C.S. Eng. (on leave); Actg. Prof. Dr. Subodh Datta, M.B. Cal., F.R.C.S. Edin., L.M. Dub. *Oph. Surgery*—M. N. Chatterjee, M.B. *Pathology*—Charuchandra Bose, M.B. *Hygiene*—T. N. Majumdar, D.P.H. 50 other Teachers.

BERHAMPUR, *Krishnath College*. B.A. and B.Sc. Principal and Prof. of *Maths.*—Baikunthachandra Ray, M.A. 31 other Teachers.

BHOWANIPUR, *Asutosh College*. B.A. and B.Sc. Principal, and Prof. of *Econ.*—Panchanan Sinha, M.A. 30 other Teachers.

BURDWAN, *Raj College*. B.A. Principal and Prof. of English—C. C. Mitra, M.A., B.L. 18 other Teachers.

CALCUTTA, *Bangabasi College*. B.A. and B.Sc. Principal—G. C. Bose, F.H.A.S., M.A., M.R.A.S. 49 Teachers.

CALCUTTA, *Bengal Engineering College* (Govt.). B.E. Principal—A. Macdonald, M.A., B.Sc., A.M.I.E. Ind. Profs. of *Civil Engin.*, *Elec. Engin.*, *Mech. Engin.*, *Physics and Maths.*, and *Chemistry*. 25 other Teachers.

CALCUTTA, *Bethune College* (Girls). B.A. Supported by Govt. Principal and Prof. of *Engl.*—Mrs. Rajkumari Das, M.A. 14 Teachers.

CALCUTTA, *City College*. B.A. and B.Sc. Principal, and Prof. of *Engl. Lit.*—Herambachandra Maitra, M.A., D.Litt. 51 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Principal—Rai Shaheb M. Mitra, B.A., B.T., Dipl. in Edn. Ox. Profs.: Binayabhusan Sarkar, B.A., B.T.; K. D. Ghose, B.A. Ox.; G. C. Dasgupta, B.A., B.T.; S. C. Chakravarty, M.Sc., B.T.

CALCUTTA, *Diocesan College* (Girls). B.A., B.T. Principal—Sister Dorothy Frances, C.S., J.B. 11 other Teachers.

CALCUTTA, *Islamia College*. B.A. Principal and Prof. of English—A. H. Harley, M.A., I.E.S. 28 other Teachers.

CALCUTTA, *La Martiniere*. Intern. Secretary—J. W. Holme, M.A. 5 other Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Established 1842. Connected with Univ. since 1889. Principal—Provincial of the Loreto nuns in India. Vice-Principal—Superioress of Loreto House. 7 other Teachers.

CALCUTTA, *Medical College of Bengal*. M.B. Principal—Lt.-Col. D. P. Goll, M.B., F.R.C.S. Edin., I.M.S. Profs.: *Anat.*, *Descriptive and Surgical*—Rai Bahadur N. Pan, M.B. *Bot. and Zool.*—E. Ghosh, M.Sc., M.D., F.Z.S. *Chem.*—Lt.-Col. T. C. Boyd, F.R.C.S.I., I.M.S. *Dentistry and Dental Op.*—J. E. Gill, L.D.S. Eng. *Hygiene*—R. B. Khambata, D.P.H., M.R.C.S. Eng., L.R.C.P. Lond. *Materia Med. and Pharmacol.*—Lt.-Col. R. N. Chopra, M.D., I.M.S. *Med. Jurispr.*—Major B. G. Mallya, F.R.C.S.E., I.M.S. *Med.*—Lt.-Col. J. D. Sandes, M.D., F.R.C.P., I.M.S. *Med.*, *Clin.*—Major J. C. De, M.B., M.R.C.P., I.M.S. *Midwifery*—Lt.-Col. V. B. Green Armytage, M.D., F.R.C.P., I.M.S. *Obstet. and Gynaecol.*, *Clin. and Operative*—Lt.-Col. P. F. Gow, D.S.O., M.B., F.R.C.S. Edin., D.P.H., I.M.S. *Ophthalmic Med. and Surg.*—Major E. O. W. G. Kirwan, M.Sc., M.B., F.R.C.S.I., I.M.S. *Pathol.*—

T. Sui, M.D. (Offg.) *Physics*—T. D. Kar, M.A. *Physiol.*—Lt.-Col. A. C. MacGilchrist, M.A., M.D., D.Sc., M.R.C.P., I.M.S. (Retd.). *Surg.*—Lt.-Col. W. L. Harnett, M.A., M.D., F.R.C.S., I.M.S. (offg.). *Surg., Chm. Operative*—L. M. Banerjee, M.S., F.R.C.S., L.R.C.P. 29 other Teachers.

CALCUTTA, *Presidency College*. B.A. and B.Sc. Maintained by Govt. No. of undergraduates limited to 960. Principal—J. M. Bottomley, B.A. Ox. (on deputation); B. M. Sen, M.A. Camb. (offg.). Other Profs : *Arabic, Persian, and Urdu*—M. Sanaullah, M.A.; M. Mahfuzul Huq, M.A., M. Ahmed, M.A.; T. Rezwani, M.A.; A. Khaleque, M.A. *Botany*—S. C. Banerjee, M.A., B.Sc., F.L.S.; G. P. Mojumdar, M.Sc., B.L.; J. C. Sengupta, M.Sc., Ph.D. *Chem.*—P. Neogi, M.A., Ph.D., F.C.S.; A. Mitra, M.A.; H. D. Mukherjee, M.A.; A. C. Sircar, M.A., Ph.D.; H. C. Datta Gupta, M.A., B.L. *English*—P. C. Ghosh, M.A.; S. K. Banerjee, M.A., Ph.D.; H. K. Banerjee, M.A., B.Litt.; M. G. Bhattacharyya, M.A.; S. Mitra, M.A.; S. C. Sen Gupta, M.A.; T. P. Mukherjee, M.A. *Geol. and Geog.*—J. A. Dunn, B.Sc., D.I.C. (Geol. Survey of India); H. C. Das Gupta, M.A., F.G.S. *Hist. and Geog.*—S. K. Chatterjee, M.A.; B. K. Sen, M.A.; U. N. Ghoshal, M.A., Ph.D.; S. C. Mojumdar, M.A., B.L. *Maths. and Astronomy*—N. S. Ghose, M.A.; J. Ghosh, M.A., Ph.D.; K. N. Chakravarti, M.Sc.; B. C. Das, M.Sc.; G. D. Bhar, M.Sc.; S. N. Das, M.Sc. *Philos. and Logic*—P. D. Shastri, M.A., Ph.D.; R. K. Dutt, M.A.; N. K. Brahma, M.A.; U. C. Bhattacharyya, M.A. *Physics*—P. C. Mahalanabis, M.A. Camb., B.Sc.; S. Datta, D.Sc., D.I.C., D. K. Mojumdar, M.A., B.L.; C. C. Bhattacharyya, M.A.; K. C. Kar, D.Sc. *Physiol.*—N. C. Bhattacharyya, M.A., B.Sc.; N. M. Basu, M.Sc.; S. M. Banerjee, M.Sc., M.B. *Polit. Econ. and Polit. Philos.*—A. K. Sarkar, M.A.; D. G. Chatteraj, M.A., U. N. Ghoshal, M.A. *Sanskrit, Pali, Bengali, and Hindi*—N. Chakravarti, M.A.; H. Banerjee (Vidyabhusan), M.A.; S. Bagchi, M.A.; S. N. Lala; S. Bhaduri, M.A.; S. Bhattacharyya, M.A., B.T. 22 Assistants and Demonstrators.

CALCUTTA, *Ripon College*. B.A., B.Sc., B.L.

*College Department*. Principal, and Prof. of Engl.—R. N. Ghose, M.A. 34 other Teachers.

*Law Dept.* Principal—S. C. Chaudhuri, M.A., LL.D. Camb. Prof.—J. N. Kanjilal, M.A., D.L. 9 other Teachers.

CALCUTTA, *St. James' College*. Interim. Sc. Principal and Prof. of Engl.—T. H. Cashmore. 4 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Principal, and Prof. of *Economics*—Rev. P. G. Bridge, D.D. 21 other Teachers.

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc. Students of other religious persuasions are admitted. Rector—M. Vermeire, S.J. 23 other Teachers.

CALCUTTA, *Sanskrit College*. B.A. Principal, and Prof. of *Philos. and Logic*—S. N. Das Gupta, Ph.D. Lond. and Cal., M.A. 15 other Teachers.

CALCUTTA, *School of Tropical Medicine and Hygiene*. D.P.H. The School, which includes (1) the School of Tropical Med., (2) the Inst of Hygiene, (3) the Carmichael Hospital for Tropical Diseases, and (4) the Calcutta Pasteur Inst., is supported mainly by the Government of Bengal, but it has an Endowment Fund which amounted on December 31, 1928, to nearly £90,000, and receives large sums annually from commercial and industrial firms and individuals and the Indian Research Fund Association. A post-graduate clinical and laboratory course (Oct.-April) leads to the D.T.M. of the Faculty of Tropical Med. of



Bengal. A 3 mos.' (July-Oct.) course for medical officers and other practitioners leads to a certificate granted by the same authority. A 9 mos.' course (Oct.-July) for medical graduates leads to the D.P.H. of the University of Calcutta and of other examining bodies.

*Research Departments*—Dermatol., Spirochaetosis, Calcium contents Inquiry, Tuberculosis, Indigenous Drugs, Drug Addiction, Hookworm, Kala-azar, Diabetes, Filariasis, Leprosy, Radiology, Bowel Diseases, Standardization work in Indian Food Stuffs, Beri-Beri Research and Kurchi Alkaloid Inquiry.

Director: Lt.-Col. H. W. Acton, M.R.C.S., L.R.C.P., I.M.S., Prof. of Pathol. and Bacteriol. and Helminth. Assist. Director: Dr. R. T. M. Hayter, I.M.D. Other Profs.: Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.; Lt.-Col. R. Knowles, B.A. Camb., M.R.C.S., L.R.C.P., I.M.S.; Lt.-Col. R. N. Chopra, M.A., M.D. Camb., I.M.S.; Lt.-Col. R. B. Lloyd, M.A., M.B., B.Ch. Camb., I.M.S.; Dr. C. Strickland, M.A., M.D., B.Chir. Camb.; Dr. Sudhamoy Ghosh, M.Sc. Cal., D.Sc., F.R.S. Edin., F.C.S. Lond.; Dr. Sivapada Bhattacharyya, M.D. Cal., Offg.; Dr. R. B. Khambata, M.R.C.S., L.R.C.P., D.P.H. 12 Assistant Profs. and Lectrs.

CALCUTTA, *Scotch Church College*. B.A. Hons. and B.Sc. Hons. Formerly the General Assembly's Institn. and Duff Coll. Principal—W. S. Urquhart, M.A., D.Litt., D.D., D.L. Other Profs.: *Engl.*—A. Cameron, M.A., B.D.; A. Mowat, M.A.; S. C. Dutt, M.A.; B. B. Ray, M.A.; M. D. Gray, B.A.; W. Sutherland, M.A.; M. Bose, M.A. *Philos. and Logic*—Principal; P. C. Sen, M.A.; S. P. Biswas, M.A.; M. N. Banerjea, M.A. *Econ.*—J. Kellas, M.A.; N. C. Bhattacharyya, M.A.; L. A. Natesan, M.A. *Maths.*—M. S. Sarkar, M.A.; B. B. Mandal, M.Sc.; N. K. Karforma, M.A.; B. N. Mukerjee, M.A. *Sansk.*—D. M. Bhattacharyya, M.A.; R. Bhattacharyya, M.A.; Santikumar Mitra, M.A., Lectr *Bengal*—M. M. Bose, M.A.; S. K. Das Gupta, M.A. *Hindi*—S. N. Lala. *Physics*—Rai J. C. Ghosh, Bahadur, M.A. (Emeritus); N. C. Ray, M.A.; R. K. De, M.A., B.Sc. *Chem.*—B. C. Dutt, M.A., R. N. Chatterjee, M.Sc.; W. C. Somerville, B.Sc., Ph.D. Edin. *History*—Rev. H. E. Fraser, M.A.; M. L. Sirkar, M.A.; A. C. Sen, M.A. 18 other Lectrs. and Demrs.

CALCUTTA, *Vidyasagar College* (formerly Metropolitan Institn.). B.A., B.Com., and B.Sc. Principal, and Prof. of *Engl. Lit. and Philos.*—J. R. Banerjea, M.A., B.L. 75 other Teachers.

CHANDURNAGORE, *College Duplex*. Interm. A., Interm. Sc. Principal, and 9 other Teachers.

CHITTAGONG, *College (Govt.)*. B.A. and B.Sc. Principal—A. K. Chanda, M.A. Ox. 29 Teachers.

COMILLA, *Victoria College*. B.A. Principal—R. G. Nath, M.A. 22 other Teachers.

COOCH-BEHAR, *Victoria College*. B.A. and B.Sc. Principal, and Prof. of *Physics*—M. Dey, M.A. 17 other Teachers.

DARJEELING, *St. Joseph's College*. Interm. Rector—Rev. Father J. de Gheldere, S.J. 3 other Teachers.

DAULATPUR, *Hindu Academy*. B.A. and B.Sc. Pass and Hons. Acharyya—Pandit J. K. Tarkatirtha. Principal—B. B. Bhattacharyya, M.A. Vice-Principal—D. N. Ghose, M.A. 27 other Teachers.

FARIDPUR, *Rajendra College*. B.A. Principal, and Prof. of *English*—K. N. Mitra, M.A., B.L. 15 other Teachers.

FENI COLLEGE. B.A. Principal, and Prof. of *History*—A. C. Rakshit, M.A. 17 other Profs.

GAUHATI, *Cotton College* (Govt.). M.A. in English (A course); B.A. and B.Sc. Principal—D. Thomson, M.A., B.Sc., Ph.D. Profs. *Engl.*—P. G. Abraham, M.A. Ox.; Praphullachandra Ray, M.A.; Asutosh Chatterjee, M.A.; S. K. Bhuyan, M.A., B.L.; B. K. Kakoti, M.A. *Physics*—S. N. Chatterjee, M.A. *Chem.*—J. M. Dutta, M.A.; S. C. Chatterjee, M.Sc. *Maths.*—Harshanath Sen, M.Sc. *Philos.*—R. R. Thomas, M.A. *Sansk.*—L. N. Chatterjee, M.A., V.S. *Arabic and Persian*—S. Md. Mahibullah, M.A. *Economics*—A. E. Brown, M.A., LL.B. Camb. *Hist.*—B. C. Sen Gupta, M.A.; B. M. Sen, M.A. 12 other Teachers

GAUHATI, *Earle Law College* (Govt.). B.L. Principal—J. Borooah. Profs.: A. E. Brown, M.A., LL.B.; R. C. Das, M.A., B.L.; Tirthanath Phukan, B.L.

HETAMPUR, *Krishna Chandra College*. B.A. Principal—B. C. Sengupta, M.A., B.L. 8 other Teachers.

HUGHLI COLLEGE. B.A. and B.Sc. Maintained by Govt. Principal, and Prof. of *Hist.*—K. Zachariah, M.A. Ox. Vice-Principal, and Prof. of *Physics*—P. C. Bhattacharyya, M.A. 18 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—R. N. Sen, M.A., M.Sc. Vice-Principal—..... 17 other Teachers.

MIDNAPORE, *Midnapore College*. B.Sc. (Hons. in Phys. and Maths.). Principal—T. P. Biswas, M.Sc., B.L. 13 Teachers.

MYMENSINGH, *Anandamohan College*. B.A. Principal, and Prof. of *Philos.*—K. Chakravarti, M.A., Ph.D. 30 Teachers.

PABNA, *Edward College*. B.Sc. Principal—Rai R. N. Bose, Bahadur, M.A. 14 other Teachers.

RAJSHAHI, *Government College*. B.A. and B.Sc. Principal—W. A. Jenkins, D.Sc. 34 other Teachers.

RANGPUR, *Carmichael College*. B.A. and B.Sc. Principal, and Prof. of *Phys. and Maths.*—D. N. Mallik, B.A. Camb., Sc.D. Dub., B.Sc. Lond. 28 other Teachers.

SERAMPORE COLLEGE (chartered in 1818 by the King of Denmark). Grants a B.D. degree which is accepted as equivalent to Calcutta B.A. as qualifying for post-graduate courses in most subjects. (Bishops' College, Calcutta, and 4 other Theological institutions are affiliated to it.) B.A. Principal—Rev. G. H. C. Angus, M.A., B.D. 20 other Teachers.

SYLHET, *Murari Chand College* (Govt.). B.A. and B.Sc. Principal—D. E. Roberts, M.Sc. Wales, I.E.S. 28 Teachers.

BURDWAN RAJ COLLEGE. I.A., B.A. Principal, and Prof. of *Engl.*—Babu Chandicharan Mitra, M.A., B.L. 18 other Teachers.

NARASINHA DUTT COLLEGE, HOWRAH. I.A., I.Sc. Principal, and Prof. of *Engl.*—S. C. De, M.A. 10 other Teachers.

PRABHATKUMAR COLLEGE, CONTAL. I.A. Principal, and Prof. of *Maths.*—Nepalchandra Ray, M.A. 4 other Teachers.

SAADAT COLLEGE, KARATIYA. Int.A. Principal—Maulvi Ebrahim Khan, M.A., B.L. 7 other Teachers.

ST. EDMUND'S COLLEGE, SHILLONG. Interm. Standard. Principal, and Prof. of *Latin*—Rev. Br. J. C. Roe. 5 other Teachers.

ST. JOSEPH'S COLLEGE, CALCUTTA. Int.A., Int.Sc. Principal—Rev. Br. D. M. Lonergan. 5 other Teachers.

UTTARPARA COLLEGE. Int.A., Int.Sc. Principal, and Prof. of *Physics*—  
 Dhruvakumar Pal, M.A., B.Sc., B.L. 7 other Teachers.

VICTORIA COLLEGE, NARAIL. Int.A., Int.Sc. Principal, and Prof. of *Engl.*  
 —Gopalchandra Maitra, M.A. 6 other Teachers.

## THE YEAR 1931-32

BENEFACTIONS. For scholarships, medals, etc., Rs. 13,300.

NEW POSTS. To fill the newly created post of the Ramtanu Lahiri Professorship in Bengali, Dr. Rabindranath Tagore was invited to serve for 2 yrs, from Aug. 1, 1932.

OTHER DEVELOPMENTS. New regulations for the Matricn. Examn. provide, among other things, for examn. and instruction through the medium of Vernaculars.

CHANGES IN REGULATIONS. Provision for a separate Higher Board of Study in Applied Chemistry. Recognition of Italian as a subject for the Matricn., B.A., and B.Com. Examns. Changes in the Syllabus in Maths. for the Inter. and B.A. and B.Sc. Examns. Institution of an examn. for the D.Sc. (Public Health). Changes in the Academic costume for the various Doctorate Degrees including Hon. Degrees. New Syllabus in History for the B.A. Examn. The changes involved in the Regulations as a result of the recommendations of the Organization Committee, as adopted by the Senate, include the following Chapters of the Regns.: Chapters V., VII., VIII., X., XXV., Section 4 (under the head General) of Chapters XXX., XXXI., XXXV., and Section 7 (under the head General) of Chapters XXXII. and XXXVI.

EXTRA-MURAL WORK. Mr. Nibaranchandra Ray, Prof. of Physics in the Scottish Church College, appointed Extra-mural Lectr. for Session 1932-33.

VISITS. The following visitors lectured: Mr. C. S. Rangaswami, B.A., Editor of *Indian Finance*, on "Indian Finance in Relation to World Finance." Dr. Anna Selig, on "International Student Service—a Modern University Movement," "Ideas and Methods of University Education in Germany," and "Problems and Movements of the Students of Germany." Mr. N. M. Dutt, F.L.A., on "The Baroda Library System." Dr. B. C. Guha, D.Sc., on "Recent Researches on Vitamins." Dr. Julius Germanus, on "Turkish Contribution to Islamic Culture from 1826 to 1926."

RETIREMENTS H.E. the Rt. Hon. Sir Francis Stanley Jackson, P.C., G.C.I.E., D.L., Chancellor of the Univ. Mr. Harachandra Banerjee, Sec., Council of Post-graduate Teaching in Science. Prof. Sir C. V. Raman (Physics).

DEATHS. Mahamahopadhyay Haraprasad Sastri, Fellow of the Univ. Mr. Krishnakamal Bhattacharyya, Hon. Fellow of the Univ.

DEGREES (1931). Ph.D., 6; D.Sc., 1; M.A., 296; M.Sc., 117; B.A., 1961; B.Sc., 536; B.Com., 131; B.T., 72; B.L., 51; M.B., 151; B.E., 20.

# UNIVERSITY OF DACCA

*Address*—Ramna, Dacca, Bengal.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR—Prof. G. H. LANGLEY, M.A.

TREASURER—K. SHAHABUDDIN (on leave); W. A. JENKINS, D.Sc., I.E.S. (Offg); Rai S. C. GHOSE BAHADUR, C.I.E. (Offg)

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.

LIBRARIAN—M. RAY, M.A.

## PROFESSORS, LECTURERS, ETC.

### *Arabic and Islamic Studies*

Fück, J. W., Ph.D. Frank. Prof.

Hossain, S. M., M.A., D.Phil. Ox.

Reader.

Israely, Md. S. Lectr.

Taufiq, M. A., M.A. Panj., M.O.L.

Panj. Lectr.

Aziz, Md. A., M.A. Lectr.

2 Asst. Lectrs

### *Chemistry*

Ghosh, J. C., D.Sc. Calc. Prof.

Chowdhury, J. K., M.A. Calc.,

Ph.D. Berl.

(Analytical C.) Reader.

Sarkar, S. S. G., D.Sc. Lond.

Reader.

### *Lecturers :*

De, R. L., M.Sc. Calc.

Purkayastha, R. M., M.Sc. Calc.

Basu, K. P., D.Sc., D.Phil.

Munich (Tempy.).

6 Asst. Lectrs.

### *Commerce*

Junnarkar, P. B., M.A., LL.B.

Bom. (Acctcy. and Business

Organizn.) Reader.\*

Rallan, S. R., B.Com. Birm. Lectr.

1 Asst. Lectr., 2 Pt.-time Lectrs.

### *Economics and Politics* [Reader.\*

Sinha, J. C., M.A., Ph.D. Calc.

Banerjee, D. N., M.A. Calc. (on leave) Reader

Ayyar, S. V., M.A. Madr. Lectr.

Shaha, K. B., M.A. Calc. Lectr.

Dam, M. L., M.A. Calc. Lectr.

Sen, A. K., M.A. Calc. Lectr.

Ghosal, A. K., M.A. Calc. (Tempy.).

4 Asst. Lectrs.

### *Education*

West, M. P., M.A., D.Phil. Ox. (on leave) Hon. Reader.\*

Bhattacharya, G., B.T. Calc.

(Offg).

6 Hon. Teachers.

### *English*

..... Prof.

Hasan, M., M.A. Calc., B.A. Ox.

(on leave) Reader

Roy, S. N., M.A. Calc., Ph.D. Lond.

Reader.\*

### *Lecturers :*

Guha, P. K., M.A., B.L. Calc.

Ray, B. K., M.A., B.L. Calc.

Chanda, S. M., M.A. Calc., B.A.

Ox.

Chaudhury, J. N., M.A. Calc.

Ganguli, S., M.A.

Chatterjee, S. K., M.A. (Tempy.).

2 Asst. Lectrs.

### *History*

Majumdar, R. C., M.A., Ph.D.

Calc. Prof.

\* Head of Department.

## Readers:

Qanungo, K. R., M.A. Calc.  
 Sarkar, S. C., M.A. Calc., B.A. Ox.  
 Bhattacharyya, S. N., M.A. Calc.

Sen, J., M.A.

1 Asst. Lectr.

## Law

[Prof.\*

Ghose, N. N., M.A., B.L. Calc.

## Lecturers:

Das Gupta, J. N., M.A., M.L. Calc.

Dutta Gupta, A. K., M.A., B.L. Calc.

Pal, N. C., M.A., B.L. Calc.

4 Part-time Lectrs.

## Mathematics

Basu, N. M., D.Sc. Calc. Prof.

Vijayaraghavan, T., D.Phil Ox.  
 Reader.

Ganguly, D. N., M.A. Calc. Lectr.

Sircar, H., D.Sc. Calc. Lectr.

Mitra, S. C., M.A., Ph.D. Calc.  
 Lectr.

1 Asst. Lectr.

## Persian and Urdu

Khan, F. A., M.A. Calc. Reader.\*

Azad, S. M. Z. H., B.A. Panj. Lectr.

Shadani, W. H. A., M.A., M.O.L.

Panj. (on leave) Lectr.

\*Borrah, M. I., M.A., Ph.D. Lond.  
 (Tempy).

1 Asst. Lectr.

## Philosophy

[Reader.\*

Bhattacharyya, H., M.A. Calc.

Gupta, U. N., M.A. Calc. Lectr.

Ahmed, M., M.A. Lectr.

\*Mukherji, K. C., M.A. Calc.

2 Asst. Lectrs.

## Physics

Bose, S. N., M.Sc. Calc. Prof.

Krishnan, K. S., M.Sc. Mad.

Reader.

Khastgir, S. R., D.Sc. Calc. Reader.

Guha, B. C., M.Sc. Calc. Lectr.

7 Asst. Lectrs.

## Sanskrit and Bengali

..... Prof.

De, S. K., M.A., B.L. Calc., D.Lit.  
 Lond. Reader.\*

## Lecturers:

Basak, R. G., M.A. Calc.

Bhattacharyya, G. P., M.A. Calc.

Shahidullah, M., M.A. Calc.,

D. ès L. Paris.

Bandyopadhyaya, C. C., M.A.

Mazumdar, M.L., B.A. Calc.

3 Asst. Lectrs.

\* Head of Department.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are recognized teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

## GENERAL INFORMATION

This Univ. was established in 1921 under an Act of 1920, which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. Special attention is devoted to Islamic Studies and to the needs of the Musalman community, but the Univ. is open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., with a constitution resembling in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties; and the Teaching Staff has the main responsibility for all matters connected with teaching and exams. The students (other than those living under specially approved conditions) reside in Halls and Hostels, and the Univ. teachers in houses erected for them, in the Univ. domain. The domain consists

of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to  $1\frac{1}{2}$  miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief buildings for teaching and administrative purposes include : Central buildings, containing about 200 rooms (area 94,000 sq. ft.), used for Class-rooms and Library ; Chemical and Physical Laboratories (area 26,500 sq. ft.) ; the Curzon Hall (which accommodates about 2000 persons) ; the Dacca Hall residence for 160 students ; the Jagannath Hall for 200 students ; and the Salmullah Muslim Hall for 296 students.

LIBRARY, 61,971 vols., and more than 17,000 MSS. in Sanskrit, Bengali, Urdu, Persian, and Arabic. Annual Library grant, Rs. 17,000. LABORATORIES : Physical, with metal and wood workshops ; Chemical, with special arrangements for training in commercial analytic methods ; and Psychological.

FACULTIES. Arts, Science, Law.

ADMISSION. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed is as follows : for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs. ; Diploma in Practical English, 1 yr. ; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr. ; B.T. or L.T., 1 yr ; M.T., 3 yrs. ; B.Com., 2 yrs. ; B.L., 3 yrs. (All M.A. and Dacca Honours B.A. 2 yrs.) ; M.L., 3 yrs. The Ph.D., D.Sc., or D.L. are open to graduates of 3 yrs.' standing, but graduates of other Univs. must pursue researches in this Univ. for 2 yrs. ; published research work required.

SCHOLARSHIPS open to graduates : 3 of Rs. 40 each p.m., 2 of Rs. 30, 9 of Rs. 10 p.m., with exemption from tuition and examn. fees, of which one is for depressed classes only and one for women students only, 2 of Rs. 30 (for backward classes only), 1 of Rs. 30 for Muhammadans only, 2 of Rs. 25 (Muhammadans only). Law Scholarship of Rs. 50 (open to Law graduates). Research studentships : 2 of Rs. 75 p.m. and 10 of Rs. 50.

FEES. Tuition, per session ; for B.A., B.Sc., or B.L. course, Rs. 96 ; for B.Sc. with Honours in Physics and Chemistry, Rs. 120 ; M.A., Rs. 120 ; M.Sc., Rs. 144 ; Diploma Course in Practical English, Rs. 60 ; Registration, R. 1 ; Admission, Rs. 5 ; Athletic, Rs. 5 ; Students' Union, Rs. 3.8 ; Research students, Rs. 10 ; Enrolment of Registered Graduates, Rs. 5 ; Enrolment of Registered Graduates for Life, Rs. 25. HOSTELS : Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine, and servants. Cost of food about Rs. 12 p.m.

TUTORIAL CLASSES have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged in the work under the control of the Heads of the Depts. and the Provosts.

PUBLICATIONS. *General Information Pamphlet* (May) ; *Annual Report* (July) ; *Bulletins* ; *Calendar* (every 3rd yr., next issue Sept. 1932).

## THE YEAR 1931-32

NEW BUILDINGS. The Salmullah Muslim Hall completed and occupied.

OTHER DEVELOPMENTS. The University MSS. Committee (Bengali and Sanskrit Section) have already collected c. 17,750 valuable Sanskrit and Bengali MSS. The Arabic, Persian, Urdu, and Punthi MSS. Committee have collected 270 rare and valuable MSS.

**EXTRA-MURAL WORK.** As in previous years, public lectures were delivered by members of the teaching staff of the University.

**VISITS.** Dr. Anna Selig, Exec. Sec. of the International University service of Germany, delivered three lectures.

**RETIREMENTS.** Maulana Munawar Ali (Arabic and Islamic Studies), retired, and U. C. Bhattacharyya (Philos.), reverted to Government service.

**HONORARY DEGREES.** *LL.D.*—Col the Rt Hon. Sir Francis Stanley Jackson, G.C.S.I., G.C.I.E., ex-Chancellor of the Univ. *D.Sc.*—Sir Chandrasekhara Venkata Raman, M.A., Ph.D., D.Sc., F.R.S., N.L.

**STUDENTS.** Full-time : total, 1063, including 413 graduates. Part-time : total, 233.

**DEGREES.** B.A. (Ord.), 84 ; B.A. (Hons.), 42 ; B.Sc. (Ord.), 25 ; B.Sc. (Hons.), 17 ; M.A., 50 ; M.Sc., 26 ; B.Com., 9 ; B.T., 74 ; B.L., 37.

# UNIVERSITY OF DELHI

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—HON. KHAN BAHADUR SIR FAZL-I-HUSAIN, K.C.I.E.

VICE-CHANCELLOR—KHAN BAHADUR MD. ABDUR RAHMAN, B.A., LL.B. Panjab.

TREASURER—RAI BAHADUR RAM KISHORE, B.A., LL.B. Panjab.

REGISTRAR—RAI BAHADUR N. K. SEN, M.A. Calcutta.

APPOINTED (\*) AND RECOGNIZED TEACHERS OF THE UNIVERSITY,  
for classes above Intermediate standard.

(S), (H.), (R.), (A), and (C.), denote St. Stephen's, Hindu, Ramjas,  
Anglo-Arabic, and Commercial Colleges respectively.

## *Arabic, Persian, and Urdu*

Rahman, A., Maulvi Fazil, Munshi  
Fazil (Hd. of Dept.) (S).  
Verma, A. N., M.A. Calc. (H).  
Ali, Syed Azhar, M.A., M.O.L.,  
Ph.D. Camb., Munshi Fazil  
Panj. (S).  
Feroz, Bakht, M.A. Alig. (R).  
Khan, Maulvi Abdul Hadi, Maulvi  
Fazil, Munshi Fazil Panj (S).  
Qureshi, Ishtiaq Husain, M.A.  
(S).  
Taban, Zafar, Munshi Fazil Panj.  
(R).  
Musavi, Mansur Husain, M.A. All.  
(A).

## *Chemistry*

Laroia, B. D., B.A. Ox., B.Sc.  
Panj., Ph.D. Lond.  
Univ. Reader,\* Head of Dept.

## *Economics*

Chablani, H. L., M.A. Bom.  
Univ. Reader,\* Hd. of Dept.  
Ganguli, B., M.A. Calc. (H).  
Narain, Hirde, M.A. Panj (H).  
Nag, K. C., M.A. Calc. (S).  
Narain, Radhika, M.A. (C).  
Mathur, Raj Narain, M.A. (H).  
Zaidi, S. Shaukat Husain, M.A.  
(A).

## *English and History*

Young, C. B., M.A. Ox (Hd of  
Dept) (S).  
Bhattacharya, A., M.A. Ox. (H).  
Monk, F. F., M.A. Ox. (S).  
Capron, R. S., B.A. Camb. (S).  
Dayal, S., M.A. Panj. (H).  
Dave, M. J., M.A. Bom, Ph.D.  
Dub., D. ès L. (H).  
Basu, P. K., M.A. Calc. (H).  
Das, J., M.A. Calc. (R).  
Gupta, B. B., M.A. (R).  
Winsor, F. G., M.A. Camb. (S).  
Sen, S. K., M.A. Ox. (H).  
Spear, T. G. P., B.A. Camb, Ph.D.  
Camb. (S).  
Sarkar, K. M., M.A. Panj. (S).  
Eyre-Walker, C., M.A. Ox. (A).  
Lorimer, R. C., M.A. St. And. (A).  
Osmond, A. T., M.A. Agra (S).  
Das, Ramsaran, M.A. (R).  
Rai, Ganpat, M.A. Panj. (H).  
Bhandari, D. B., B.A. Lond. (R).  
Padley, Rev. H. W., M.A. Camb.  
(S).  
Bowden, G. G., B.A. Camb. (S).  
Mookerjee, A. K., M.A. Calc., B.A.  
Ox. (H).  
Advani, A. A., B.A. Bom. and  
Lond. (H).  
Ghosh, P. C., M.A. Calc. (R).



Chopra, R. P., M.A. (R).  
 Sharma, B. D., M.A. (R).  
 Sharma, K. G., M.A. (C).  
 Sen, S., M.A. Calc. (C).  
 Ram, D. Raja, M.A. (S).  
 Chand, B., M.A. Panj. (H).

*Law*

Shahani, M. S., M.A. Ox. Lectr.\*  
 Swarup, B., B.A., LL.B. Panj. Lectr.\*  
 Sarwar, Hasan, B.A., LL.B. Camb.  
 Rahman, Khan Bahadur Abdur  
 B.A., LL.B. Panj. Dean.  
 3 other Hon. Readers.

*Mathematics*

[(R).  
 Lal, Avadh Behari, M.Sc. All.  
 Bannerji, A. T., M.A. Calc. (H).  
 Mitra, J. N., M.A. (R).  
 Mukerji, S. N., M.A. Panj., B.A.  
 Camb (Hd of Dept) (S).  
 Ram, Behari, M.A. Panj., B.A.  
 Camb, Ph.D. Dub. (S).  
 Ram, Sri, M.A. Panj. (H).  
 Pande, Kedar Dat, M.Sc. All. (S).

*Persian, v. Arabic**Philosophy*

Sen, N. K., M.A. Calc.  
 Univ. Reader,\* Hd. of Dept.  
 Mitra, C. C., M.A., B.L. Calc. (H).  
 Bose, S. K., M.A. Camb., B.A. (R).  
 Leigh, M. S., M.A. Ox. (S).  
 Sen, Indra, M.A. (H).  
 Osmond, A. T., M.A. (S).  
 Gupta, K. C., M.A. Calc. (R).  
 Sodhi, Hukam Singh, M.A. Panj.,  
 Ph.D. Lond. (A).

*Physics*

Ram, Khub, M.A. Panj., M.Sc.  
 Leeds  
 Univ. Reader,\* Head of Dept.

*Sanskrit*

Narain, Pandit M. M. Har, Shastri  
 Panj. (H).  
 Dhar, Lachhmi, M.A., M.O.L.  
 Panj. (S).  
 Chaudhri, N. N., M.A. Panj. (R).  
 Kaul, K. N., M.A., M.O.L. Panj.  
 (H).  
 Sharma, Ganga Ram, B.A. (R).  
 Sharma, Vyas Deva, M.A. Luck.  
 (R).

*Urdu, v. Arabic*

## GENERAL INFORMATION

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. Subsequently four Intermediate Colleges, three for boys and one for girls, were recognized as Constituent Colleges of the Univ., namely: The Anglo-Arabic, Ramjas Intermediate, Commercial, and Indraprastha (girls'). The Anglo-Arabic Coll. was recognized in 1930 and the Commercial Coll. in 1932 for teaching up to the B.A. degree in certain specified subjects. The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs. and recognized Boards.

FACULTIES and Deans: Arts, H. L. Chabiani; Science, Khub Ram; Law, Khan Bahadur Abdur Rahman.

DEGREES. B.A. (Pass and Hons.), B.Sc., M.A., LL.B., LL.M., LL.D. A 2 yrs.' hons. course is offered in most of the Arts subjects.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

PUBLICATIONS. *Calendar* (published triennially), Rs. 3; *Courses of Reading*; *Question Papers*; *Annual Report and Annual Accounts*; *Minutes*; Convocation Addresses by Chancellor and Vice-Chancellor.

## THE YEAR 1931-32

**NEW BUILDINGS.** The Government of India have recently allotted to the Univ. a portion of the Old Viceregal Lodge Estate as a temporary measure for the use of the Faculty of Law, the Law hall and the residence of the Warden and the Law Lectrs. The property, covering an area of about 25 acres, includes a central building which will provide several lecture rooms, an assembly hall and a section of the Law Library. There are 9 residential buildings which will be utilized for the Law hostel and the residence of the teaching staff. There will be sufficient room for recreation grounds.

**CHANGES IN REGULATIONS.** "Physiology and Hygiene" has been introduced as an additional elective subject for women candidates for the Inter. Examn. Women candidates can also offer "Mental Hygiene" or "Child Psychology" as an alternative to "Logic" for the same examn.

**VISITS FROM OTHER UNIVERSITIES.** Dr. Duncan Hall of the Opium section of the League of Nations gave a lecture on "The Work of the League of Nations" in Oct. 1931. Professor V. G. Kale, M.A., of Poona, the Sir Kikabhai Premchand Reader in Economics, gave a series of 10 lectures in Feb and March 1932, on "The Finances of the Government of India since 1921-22."

**STUDENTS.** Full-time: total, 1699, including 189 graduates.

**DEGREES OBTAINED.** B.A., 108; B.Sc., 16; M.A., 24; and LL.B., 17.

# UNIVERSITY OF LUCKNOW

VISITOR—H E THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—JAGAT NARAYAN, B A.

HON. TREASURER—S. M. HABIBULLAH, O.B.E., B.A , M.L.C.

REGISTRAR—R. R. KHANNA, M.Sc.

PROCTOR—J. A. STRANG, M.A , B Sc.

HON. LIBRARIAN—WALI MOHAMMAD, M A., Ph D., I.E.S.

## PROFESSORS, LECTURERS, ETC.

### KING GEORGE'S MEDICAL COLLEGE

*Principal*—Lt.-Col. H. STOTT, O.B.E., M.D., B.S., F.R.C.P.,  
D.P.H. Lond , I M S.

#### *Anatomy*

..... Prof.  
Goil, Capt. J. N., M.B., B S. All  
Offg Prof

2 Demrs .

#### *Forensic Medicine*

Modi, J. P., R.B., L.R.C.P. & S  
Edin., L.F.P. & S Glas.  
Reader.

#### *Medicine*

Burke, Lt.-Col. G. T., M.D.,  
M.R.C.P. Lond., I.M.S. Prof.  
Sahai, H., M.B., B.S. Panj.  
Lectr. and Regr.

#### *Obstetrics and Gynaecology*

Buckley, Lt.-Col. H. C., M.D.  
Lond., F.R.C.S. Ed., I.M.S.  
Prof.  
Siret, Miss A., M.B. Calc., L. M.  
Rot., D.G.M. Dub.  
(Midwifery) Lectr.

#### *Ophthalmology*

Acharya, B. G. S., B.A., M.B.,  
C.M. Madras, L.R.C.P. Lond.,  
F.R.C.S. Edin., M.R.C.S.  
Eng , D O Ox. Prof.  
Misra, C P., L.M.S. Panj. Lectr.

#### *Pathology*

Stott, Lt.-Col. H., O.B.E., M.D.,  
B.S., F.R.C.P., D.P.H. Lond.,  
I.M.S. Prof.\*  
Mukerji, Capt. J. G., R.B., L.M.S.  
Panj. Reader.  
Hamid, M. A., M.B., B.S. All,  
M.D., M.R.C.P. Lond. Lectr.  
2 Demrs.

#### *Pharmacology*

Vyas, B. N., R.B., M.B. Panj  
Reader.  
Bhatia, B. B., M.D., B.S , M.R.C.P.  
Lond. Lectr.  
1 Demr.

#### *Physiology*

Burridge, W., M A., D.M., B.Ch.  
Ox , I M S S.A. Prof.  
Mathur, S. N., M.B., B.S. All.  
Lectr.  
2 Demrs.

#### *Public Health*

Pandya, D. D., R.B., L.R.C.P. &  
S. Edin., L.R.F.P. & S. Glas.,  
D.P.H. Camb. Prof.  
..... (San. Engineering) Lectr.

\* Dean.

Mathur, H G D, B Sc, M B, B S All, M R C P Ed, D T M & H Lond, D P H. J. Hop (Hygiene) Lectr. <i>Radiology</i> Ragunandan, Lal, M.B, B S Panj, Reader.	Nigam, K. S., M.D. All., F.R.C.S. Ed, D.T.M. Lond. Reader Kacker, P C, M.B., B.S All, F R C S Edin Lectr and Regr. Kacker, R. N, M.B, B S, D L O. Eng Hon Lectr. Pramanuck, R. D., B Sc., M.B., B S (Anæ) Lectr. Goil, R. B., B Sc. Ben, D.D.S. Atl. (Dentistry) Lectr.
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## CANNING COLLEGE (ARTS AND SCIENCE)

*Principal*—S. B. Smith, M.A. Ox.

<i>Arabic</i> Wahid Mirza, Mohd., M A. Panj., Ph.D. Lond. Reader. Arab, Khalil Ibn Mohd. Maulvi Lectr.	<i>English</i> Sidhanta, N. K., M A. Camb. and Calc. Prof. Brander, L. R. M., M.A. Edin. Reader. ..... Reader. Rao, A. Vittal, M A. Mad., Ph.D. Lond. Temp. Lectr. Roy, F. T., M A. All. Lectr. Sreshta, R. R., M.A., LL.B. Camb. Lectr. Roy, C. G., M.A. All. Lectr. Bhattacharya, A. T., M.A. Jr. Lectr. Amcer Ali, Syed, M.A, B.L. Calc. Jr. Lectr. Mitra, D., M.A. Jr. Lectr.
<i>Botany</i> Sahni, Birbal, M.A., Sc.D. Camb, D.Sc. Lond., F.G.S. Prof. Mukerji, S K., M.Sc. All., D.Sc. Lond., F.L.S. Reader. Chowdhury, H. P., M Sc Panj, D.I.C. Lectr. 2 Demrs.	<i>History, European</i> Smith, S B., M.A. Ox. Prof.* Das Gupta, S. N., M.A. Lond. Lectr. <i>History, Indian</i> Mookerji, R Kumud, M.A., Ph.D. Calc Prof. Banerji, S. K., M.A., L.T. All., Ph.D. Lond. Reader. Chatterji, C. D., M.A. Calc. Lectr. Chatterji, N. L., M.A All. Lectr.
<i>Chemistry</i> MacMahon, P. S., M.Sc. Manc., B Sc. Ox, F I C (on leave) Prof. Zaheer, Syed Husain, B.A. Ox., Ph D. Heid. Reader. Sane, S. M., B A., B.Sc. All., M.A., Ph.D. Berlin, F.C.S. Reader. Raman Nayar, M., B.A. Madras, A.I.I.Sc. (Bang.) Lectr. Chatterji, A. C., D.Sc. All. Lectr. 2 Demrs.	<i>Mathematics</i> [Prof. Strang, J. A., M.A., B.Sc. Edin. Narayan, Lakshmi, M.A., D.Sc. All. Reader.
<i>Economics</i> Mukerjee, R. Kamal, M.A., Ph.D. Calc. Prof. Mukerji, B. B., M.A., B.L. Calc. Reader. Dey, H. L., M.A. Calc. Lectr. Mukerji, D. P., M.A. Calc. Lectr. Majumdar, D. N., M.A. Calc. Lectr.	

\* Dean, Fac. of Arts.

Banerji, S., M.A. Calc. Lectr.  
Singh, A. N., M.Sc. All., D.Sc. Calc. Lectr.

*Modern European Languages*

Iyer, K. A. S., M.A. Lond. Lectr in French

*Persian and Urdu*

Rizavi, Syed M. H., M.A. Reader.  
Abdul Qavi Fani, Md., M.A. All.

Mosvi, Syed Y. H., M.A. Lectr.  
Husain, S. Mohd., Mulla Fazil, M.A., LL.B. All.

(Urdu) Lectr.

*Philosophy*

Sen Gupta, N. N., M.A., Ph.D. Harv. Prof.  
Ahmad Shah, E., M.A. All., B.Litt. Ox. Reader.  
Kali Prashad, M.A., LL.B. All. Lectr.

*Physics*

Wali Mohammad, M.A. Panj., B.A. Camb., Ph.D. Gott., I.E.S. Prof.\*  
Deodhar, D. B., M.Sc. All., Ph.D. Lond., F.P.S.L. Reader.

Ray, S. N., B.A., M.Sc. All., A.Inst P., F.P.S.L. Lectr.  
Mathur, K. N., D.Sc. All. Lectr.  
1 Demr.

*Political Science*

Ram, V. S., B.A. California, M.A., Ph.D. Harv., F.R.H.S.

Menon, V. K. N., B.A. Mad., B.A. Ox. Lectr.

Asirvatham, E., B.A. Mad., B.D. U.S.A., Ph.D. Edin. Lectr.  
Sultan, Mohd., M.A. Jr. Lectr.

*Sanskrit and Hindi*

Iyer, K. A. S., M.A. Lond. Reader.  
Shastri, B. N., Pt. M.A. All. Lectr.  
Thakur, A. D., Pt. M.A. All. ,,  
Bhatt, B. N., Pt. B.A. All. Lectr. (Hindi).

*Zoology*

Bahl, K. N., D.Phil. Ox., D.Sc. Panj. Prof.  
Thapar, Sardar Govind Singh, M.Sc. Panj., Ph.D. Lond. Reader.  
Bhatia, M. L., M.Sc. Panj. Lectr.  
2 Demrs.

ISABELLA THOBURN COLLEGE (WOMEN)

*Principal*—Miss Mary E. Shannon, M.A.

*Botany*

Oldroyd, Miss R., M.A. Kansas State Teacher.

*Chemistry*

Wallace, Miss M., B.A. Minnesota, M.A. Columbia Reader.  
Mukerjee, L. N., M.Sc. Teacher.

*Economics*

Menon, Mrs. L., M.A. Mad. [Teacher.

*English*

Dimmitt, Miss M. A., M.A. De Pauw Reader.  
Roy, Miss N., M.A. Teacher.

*History, European*

Vincent, Miss S. I., M.A. Harv. [Reader.

*History, Indian*

Chakko, Miss S., M.A. Mad. Teacher.

*Philosophy*

Venkataratnam, Miss B., M.A. Mad. Teacher.

*Political Science*

Manchester, Miss R. C., M.A. Bryn Mawr Reader.

*Sanskrit*

Srivastava, S. R., M.A. All., LL.B. [Lectr.

*Zoology*

Thillayampalam, Miss E., M.Sc. All., Ph.D. Col. Reader.

## FACULTY OF COMMERCE

Das Gupta, B. N., B.A. Calc., A.S.A.A.	(Commerce) Reader.*
Chatterji, B. N., M.A., B.L. Calc.	(Economics) Reader.
Gupta, O. P., B.A. Ben., B.Sc. Lond.	(Economics) Lectr.
Pant, D., B.Com. Bom., Ph.D. Dub.	(Commerce) Lectr.
Ahmad Husain Saiyid, B.Com.	(Commerce) Lectr.

## FACULTY OF LAW

Chak, Pt. J. N., B.A. Ox	Hajela, K. S., M.A., M.Sc., LL.B.
Reader.	All, LL.M. Bom. Reader.
Husein, Hyder, B.A. Ox., LL.B.	Ghulam, Hasan, B.A. Panj., LL.B.
Dub. Reader.	All. Reader.
Misra, J. N., B.A., LL.B. Camb.	Misra, L. S., M.A. Camb., LL.B.
M.A., LL.D. Dub. Reader.	Camb. and Dub. Reader.

## ORIENTAL DEPARTMENT

Maulvi Syed Ali Asghar; Maulvi Mustafa Hasan Alavi, Maulvi Ali Zainabi; Pandit G. C. Avasthi; Pandit Ghootar Jha.

## GENERAL INFORMATION

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Medicine, Law, Commerce.

LIBRARY. 48,741 vols.

ADMISSION. Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or of the Board of Intermediate and Sec. Education, Dacca, and the Cambridge Higher School Certificate Examn.—Certificate "A"; Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of the Panjab, or the Intermediate Examn. in Commerce of the Board of High School and Intern. Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or the Intern. Examn. in Arts (Group B—Special) of the Delhi Univ. or Intern. Examn. in Group E of the Board of Intern. and Secondary Education, Dacca, Med.—Degree in Science of Agra or Aligarh, All., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Nagpur, Panj., Patna, or Rangoon taken with Chem. and Biol. as optional subjects, or, subject to certain conditions, the Inter. Examn. of Alig., Benares, Nagpur, Intern. Board of Ed., U.P., or of Rajputana, Central India, and Gwalior.

DEGREE COURSES for B.A. Pass, B.Sc. Pass, B.Com., 2 yrs.; B.A. Honours, B.Sc. Honours, 3 yrs.; M.A., M.Sc., 2 yrs. or (after B.A. Hons. or B.Sc. Hons.) 1 yr.; LL.B., 2 yrs.; M.B., B.S., 5 yrs.; D.Sc., 3 yrs.; Ph.D., 2 yrs. The lectures are supplemented by tutorial work.

DIPLOMAS. Courses in Public Health, Teaching, Arabic, Persian, and Sanskrit.

FEES for tuition for full course: B.A., Pass, or B.Com., Rs. 216; M.A., Rs. 270; M.B., B.S., Rs. 650; D.P.H., Rs. 340; B.Sc. Pass, Rs. 252; B.A.

Honours, Rs. 324 ; B.Sc. Honours, Rs. 378 ; M.Sc., Rs. 150 (for 1 yr.'s course) or Rs. 300 (for 2 yrs.' course) ; LL.B., Rs. 240 ; D.Sc., Rs. 675.

**RESIDENCE.** Students are required, unless specially exempted, to live in hostels, King George's Medical Coll. and Canning Coll. for men ; Isabella Thoburn Coll. for women

**ADULT EDUCATION.** A system of public lectures by members of the staff and others is in force.

**FINANCE.** The University received a grant of Rs. 11,41,080 from the Provincial revenues out of which a sum of Rs. 2,71,700 was for the Hospital maintained in connexion with the King George's Medical College. The other income of the University consists of interest on endowments and subscriptions, plus fees. The total income of the University was Rs. 16,58,352.

**PUBLICATIONS.** *Calendar ; Annual Report ; Quinquennial Report of Research Work.*

## THE YEAR 1931-32

**BENEFACTIONS.** Mr. Krishna Kumar Kapoor, Deputy Collector, Sitapur, Rs. 100 ; Mr. J. N. Chak, Lucknow, Rs. 30 ; Mr. Landau, one clock and two timepieces.

**NEW BUILDINGS.** A new building for a Hospital for Women and Children to be known as Queen Mary's Hospital for Women and Children built by Government and handed over to the Univ.

**CHANGES IN REGULATIONS.** Rules for the Diploma examns. in Sanskrit framed. Ordinances regarding the M.D. and M.S. examns. revised. A rule that no candidate will be admitted to the Ph.D. and D.Sc. class unless he has passed the Master's examn. at least in the 2nd Division. Study leave rules revised so as to allow Lectrs. and Demrs. to obtain leave on full average salary, and in addition leave up to a maximum of 2 yrs. and further extension in special cases. The limit of marks prescribed for passing the examn. for Dipl. in Teaching.

**VISITS OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS.** The following lectured at the Univ on the subjects noted against each. Sir James Arthur Salter, K.C.B., Director of Economics and Finance Section of the League of Nations, on "India and the League of Nations" ; A. D. Lindsay, M.A., LL.D., C.B.E., Master of Balliol Coll., Oxford, on "Public Opinion" ; Prof. M. Habib, M.A., Prof. of Hist. and Pol. Sci., Muslim Univ., Aligarh, on "Modern Persia" ; Prof. Arnold D. McNair, LL.D., C.B.E., Prof. of Intern. Law, Cambridge Univ., and Tagore Prof. of Law, Calcutta Univ., 1931-32, on "Law of the Air" ; Birbal Sahni, M.A., Sc.D., D.Sc., F.G.S., Prof. of Botany, Lucknow Univ., was invited to deliver a series of lectures on Fossil Plants at the Punjab Univ.

**DEATHS.** Munshi Bishen Narain Bhargava, a generous donor of the Univ. The Hon. Maharaja Sir Mohammad Ali Mohammad Khan, K.C.S.I., K.C.I.E., of Mahmudabad, a prominent benefactor of the Univ., a generous donor and a life member of the Court of the Univ.

**RETIREMENT.** Captain B. S. Nat, Prof. of Anat.

**HONORARY DEGREES.** *D.Litt.*—Pt. Jagat Narain Mulla, B.A.

**STUDENTS.** Full-time, 1867, including 813 graduates.

**DEGREES.** B.A., 211 ; B.A. (Hons.), 9, M.A., 93 ; B.Sc., 55 ; B.Sc. (Hons.), 6 ; M.Sc., 19 ; M.B., B.S., 41 ; D.P.H., 14 ; M.D., 1 ; LL.B., 102 ; B.Com., 16 ; Diploma in Arabic, 22 ; Diploma in Persian, 30 ; Diploma in Teaching, 9.

# UNIVERSITY OF MADRAS

*Address*—Senate House, Triplicane P.O., Madras.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

VICE-CHANCELLOR—SIR KONKOTH RAMUNNI MENON, Diwan Bahadur,  
M.A. Camb

REGISTRAR—WILLIAM McLEAN, M.A., B.L. Glas, F.C.I.S.

LIBRARIAN—S. R. RANGANATHAN, M.A., L.T.

## UNIVERSITY PROFESSORS, LECTURERS, ETC.

<i>Geography</i>		Venkataramanayya, N., M.A.,
Kuriyan, G., B.Sc. Lond., B.A.	Ph.D.	Reader.
B.L.	Lectr.	Dikshitar, V. R. R., M.A., Dip.
<i>Indian Economics</i>		Econ Lectr.
Thomas, P. J., M.A., B.Litt Ox.,		<i>Indian Music</i>
Ph.D. Lond.	Prof.	Varadachari, V. K. Lectr.
Lokanathan, P. S., M.A. Reader		<i>Indian Philosophy</i>
Ramakrishnan, K. C., M.A. Dip.		Sastri, S. S. Suryanarayana, M.A.,
Econ. Lectr.		B.Sc. Ox. Reader.
Adyanthayya, N. K., B.A., B.Sc.		<i>Mathematics</i>
Lond. Lectr.		Vaidyanathaswami, R., M.A., D.Sc.
<i>Indian History and Archaeology</i>		Lond., Ph.D. Edin. Reader.
Sastri, Nilakanta, K. A., M.A. Prof.		

## ORIENTAL RESEARCH INSTITUTE

<i>Sanskrit</i>		[Reader.	<i>Malayalam</i>	
Raja, C. K., M.A., D.Phil. Ox.			Menon, C. A., B.A.	Senr. Lectr.
Chintamani, T. R., M.A.			Nayar, P. K.	Junr. Lectr.
	Senr. Lectr.		<i>Kanarese</i>	
Sastri, S. K. R.	Junr. Lectr.		Rao, A. V., B.A., L.T.	Senr. Lectr.
<i>Tamil</i>			Ayyangar, H. S.	Junr. Lectr.
Pillai, S. A., M.A., L.T.	Reader.		<i>Arabic, Persian, and Urdu</i>	
Pillai, K. N. S., B.A.	Senr. Lectr.		Nainar, Md. H., M.A.	Aligarh,
Reddiyar, V. V.	Junr. Lectr.		L.L.B.	Senr. Lectr. (Arabic).
<i>Telugu</i>			Junr. Lectrs. :	
Ramakrishnayya, K., M.A.			Eushaw, Syed, B.A. (Persian).	
	Senr. Lectr.		Siddiqi, Md. H. M. (Urdu).	
Sastri, V. Ch. S.	Junr. Lectr.			

## GENERAL INFORMATION

This Univ., founded in 1857, was reorganized in 1923 as a Teaching and Residential Univ., and it continues to exercise control over the quality



of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, and Boards of Studies.

From the Govt. of Madras the Univ. receives an annual statutory grant of Rs. 85,500, and a block grant of Rs. 2.3 lakhs.

The Institute of Oriental Studies and Research is attached to the Univ. It has three sections, viz., Sanskrit, Dravidian, and Islamic.

Laboratories for research in Zool., Bot., and Bio-chem. are being provided. A beginning has been made in the Depts. of Zool. and Bot. There are also Depts. of study and research in the following subjects: Indian Hist. and Archæol., Indian Econ., Indian Philos., Maths.

**FACULTIES.** Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture, Commerce, Oriental Learning, and Fine Arts.

**DIPLOMA COURSES** in (1) Mod. European Langs. (French and German), (2) Geog. and (3) Indian Music.

**ADMISSION.** The Matricn. examn. has been almost completely superseded by the School-Leaving Certif. scheme.

**DEGREES, ETC.** B.A., B.Sc., B.A. (Honours), B.Sc. (Honours), M.A., Ph.D., M.Sc., D.Sc.; B.Sc.Agr.; L.T.; B.L., M.L., LL.D.; M.B. and B.S., L.M. and S., B.San. Sc., M.D., M.S.; D.G.O.; B.E.; M.O.L. (Oriental Learning).

**DIPLOMAS.** Titles in Oriental Learning (4 yrs.' course), Siromani, and Vidvan, Economics (part-time course—2 yrs.); Dip. Econ. **CERTIFICATES** of Proficiency in Oriental Learning (2 yrs.) (C.O.P.). Modern European Languages—French and German—(1 yr.).

**RECOGNITION** of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits.

**FEES** for Univ. examns. range from Rs. 12 to Rs. 150.

**RESIDENCE, ETC.** Minimum cost of board and lodging for students living in European style, Rs. 50 p.m.; for Indians, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

**RESEARCH STUDENTSHIPS**, tenable 2 or 3 yrs., value Rs. 75 p.m. **FELLOWSHIPS**, Rs. 125 to Rs. 150 p.m.

**PUBLICATIONS.** *Calendar* (July)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affil. Colls., Endowments, Graduates; *Annual Report*; *Minutes*; *Madras Univ. Magazine*; *Tamil Lexicon* (4 vols. published).

## CONSTITUENT HONOURS COLLEGES

**MADRAS, Christian College.** (Recognized in Hons. Courses in English Lang. and Lit., Hist. and Econ., Maths., Philos., Physics and Zool.) Principal—Rev. A. G. Hogg, M.A., D.Litt. Edin. Profs.: *Bot.*—M. S. Salihesan, M.A. *Chem.*—E. Barnes, B.Sc. Lond. *English Lang. and Lit.*—Rev. A. J. Boyd, M.A.; Rev. G. Matthews, M.A. Ox., B.Litt. (on leave); Rev. J. R. Macphail, M.A. Glas.; G. C. Martin, M.A. Edin. *Hist.*—F. E. Corley, M.A. Ox.; E. J. Bingle, M.A. Ox. *Maths.*—E. B. Ross, M.A. Edin. and Camb.; W. F. Kibble, B.A. Camb. *Philos.*—The Principal; S. J. Theodore, M.A. Yale, B.Litt. Ox., Ph.D. *Physics*—J. P. Manikkam, M.A.; A. V. Moses, Ph.D. Liv., M.A.; H. R. Mills, B.Sc. Lond. *Zool.*—C. Lakshmiwarayanar, M.A. 11 Lectrs.. 32 other Teachers.

MADRAS, *Loyola College*. (Recognized in Hons. Courses in English Lang. and Lit., Econ., Maths.) Principal—Rev. F. Bertram, S.J., B.A., D.D. Profs.: *Econ.*—Rev. F. Basenach, S.J., B.Sc. Lond. *English*—Rev. L. D. Murphy, S.J., M.A. Ox.; Rev. F. Gillmore, S.J., M.A. Ox. *French*—Rev. A. Santieni. *German*—Rev. G. L. Gross. *Maths.*—Rev. L. Vion, S.J., L. ès Sc. Paris. 36 Lectrs.

MADRAS, *Pachaiyappa's College*. (Recognized in Hons. Courses in Econ., Hist., Philos.) Principal—Rao Bahadur K. Chinnatambi Pillai, B.A., L.T. Profs.: *Econ.*—E. S. A. Ayyar, M.A. *English*—S. K. Y. Ayyar, M.A.; P. S. Ayya, B.A., L.T. *Hist.*—T. R. S. Ayyangar, M.A. *Indian Langs.*: *Tamil*—M. K. Mudaliyar, B.A.; *Telugu*—V. G. J. Somayaji, M.A., L.T.; *Sanskrit*—A. S. Mudaliyar, M.A. *Maths.*—The Principal; K. S. Nayudu, M.A. *Philos.*—P. N. Srinivasachari, M.A. *Physics*—K. A. Naidu, B.A., B.L., L.T.; R. N. Selvam, M.A. 27 other Teachers.

MADRAS, *Presidency College*. (Recognized in Hons. Courses in Bot., Chem., Econ., English Lang. and Lit., Geol., Hist., Maths., Philos., Physics, Sanskrit Lang. and Lit., Zool.) Principal—R. M. Statham, C.I.E., M.A. Camb. Profs.: *Bot.*—M. O. P. Ayyangar, Ph.D. Lond., M.A., L.T. *Chem.*—B. B. Dey, M.Sc. Calc., D.Sc. Lond.; P. A. N. Ayyar, M.A., L.T. *Econ.*—The Principal; P. P. Kallukaran, M.A., B.Sc., Ph.D. Lond. *English*—V. K. A. Pillai, B.A. Ox., M.A., K. Swaminathan, B.A. Ox., M.A.; D. S. Sarma, M.A., L.T. *Geol.*—C. K. K. Pillai, M.Sc. Lond., M.A., L.T., D.I.C. *Hist.*—J. Franco, M.A., L.T.; V. Rangachari, M.A., L.T. *Maths.*—K. A. Rao, B.A. Camb., M.A.; T. Suryanarayana, B.A. Camb. *Philos.*—P. Narasimham, M.A., L.T. *Physics*—H. Paramesvaran, D.Sc. Lond., M.A., Ph.D., F.I.P.; V. A. Rao, M.A., L.T. *Sanskrit*—M. S. K. Sastri, M.A. *Zool.*—S. G. Manavalaramanujam, Ph.D. Lond., M.A., D.I.C.; R. Gopala Ayyar, M.A., M.Sc. Liv. 50 other Teachers.

## AFFILIATED HONOURS COLLEGES

HYDERABAD, *Nizam College*. (Affiliated in Hons. Courses in Econ. and Hist.) Principal—W. Turner, M.A. Edin. Profs.: *Arabic*—Zahid Ali, D.Phil. Ox., B.A. *Chem.*—B. C. McLwen, B.Sc. Lond., F.C.S. (on leave); P. R. Rao, M.A. *Econ.*—Q. Hussain, M.A.; A. Mohiuddin, B.A. Camb. *Engl.*—The Principal. *Hist.*—S. H. Rao, M.A., L.T. *Maths.*—M. V. A. Sastri, M.A., L.T. *Persian*—Tahir Ali Khan, Ph.D. Berl. *Physics*—Muhd. Abdul Rahman Khan, B.Sc. Lond., A.R.C.S.; J. C. K. Rao, D.Sc. Calc. 21 other Teachers.

TRICHINOPOLY, *Bishop Heber College*. (Affiliated in Hons. Courses in Maths.) Principal—Rev. C. H. Mirbank, M.A. Ox. Profs.: *English*—The Principal. *Hist.*—M. Koilpillai, M.A., L.T. *Maths.*—Martyn Thomas, M.A. *Physics and Chem.*—A. D. A. Ayyar, M.A. 20 other Teachers.

TRICHINOPOLY, *St. Joseph's College*. (Affiliated in Hons. Courses in Econ., Hist., Maths., Physics.) Principal—Rev. C. Leigh, S.J. Profs.: *Chem.*—Rev. A. Haas, S.J. *English*—Rev. C. Leigh, S.J. *French*—Rev. J. Bourdot, S.J. *Hist. and Econ.*—Rev. P. Carty, S.J., B.Sc. Lond.; Rev. A. Steenkaste, S.J.; Rev. A. Saldanha, S.J. *Logic*—Rev. V. Allard, S.J. *Maths.*—Rev. C. Pruvot, S.J. *Nat. Sc.*—Rev. A. Rapinat, S.J. *Physics*—Rev. D. Honore, S.J.; P. E. S. Ayyar, M.A. 55 other Teachers.

TRIVANDRUM, *Maharaja's College of Arts*. (Affiliated in Hons. Courses in Econ., English Lang. and Lit., Hist.) Principal—Rao Bahadur K. V. R. Ayyangar, M.A. Profs.: *Drav. Lang.*—C. N. A. Ramiah Sastri, M.A. *English*—P. G. S. Ayyar, M.A.; E. T. Thomas, M.A., L.T. *Hist. and Econ.*—The

Principal ; A. G. Menon, M.A., B.Com. Lond. ; T. M. Krishnamachari, M.A., B.L. ; A. N. Tampi, B.A. Ox. *Malayalam*—P. A. Pillai, M.A. *Philos.*—P. Narasimhayya, M.A., Ph.D. ; V. S. Naidu, M.A., B.L. *Sanskrit*—N. N. Pillai, M.A. 26 other Teachers.

TRIVANDRUM, *Maharaja's College of Science*. (Affiliated in Hons. Courses in Maths.) Principal—C. V. Chandrasekharan, M.A. Ox. Profs. : *Botany*—T. K. Koshy, M.A. *Chem.*—K. L. Moudgill, M.A. Camb., D.Sc. Glas., F.I.C. Lond. *English*—The Principal. *Maths.*—R. Srinivasan, M.A. ; H. Subrahmanyam, M.A., Ph.D. *Physics*—S. R. Ayyar, M.A. *Zool.*—K. S. P. Ayyar, M.A., L.T., D.Sc. 44 other Teachers.

## CONSTITUENT FIRST GRADE COLLEGES

MADRAS, *Government Muhammedan College*. Principal—E. W. Green, M.A. 3 Profs., 12 other Teachers.

MADRAS, *Queen Mary's College for Women*. Principal—Miss D. de la Hcy, M.A. 7 Profs., 20 other Teachers.

MADRAS, *Women's Christian College*. Principal—Miss E. McDougall, M.A., D.Litt. (on leave) ; Miss Edith M. Coon, M.A. (Ag.). 8 Profs., 16 other Teachers.

## AFFILIATED FIRST GRADE COLLEGES

ALWAYE, *Union Christian College*. Principal—A. M. Varki, M.A., B.L. 22 other Teachers.

ANANTAPUR, *Ceded District College*. Principal—N. R. Krishnamma, B.A. Camb. 25 other Teachers.

BANGALORE, *St. Joseph's College*. Principal—Rev. H. Prouvost. 24 other Teachers.

CHENGANACHERRY, *St. Berchman's College*. Principal—Rev. M. K. Purakkal, M.A. 28 other Teachers.

ERNAKULAM, *Maharaja's College*. Principal—K. N. Pai, B.A., L.T. 43 other Teachers.

ERNAKULAM, *St. Teresa's College*. Principal—Sister M. Beatrice, M.A. Edin., L.T. 12 other Teachers.

KUMBAKONAM, *Government College*. Principal—A. Chakravarti, M.A., L.T. 23 other Teachers.

MADANAPALLE, *Theosophical College*. Principal—C. S. Trilokekar, M.A. Bom. 14 other Teachers.

MADURA, *American College*. Principal—Rev. B. S. Stoffer, M.A., B.D., Ph.D. 39 other Teachers.

MADURA, *Madura College*. Principal—P. Mahadevan, M.A. 15 other Teachers.

MANGALORE, *St. Agnes' College*. Principal—Sister Annunciata, A.C., B.A. 9 other Teachers.

MANGALORE, *St. Aloysius' College*. Principal—Rev. T. Gonsalves, S.J., B.A. 35 other Teachers.

PALAMCOTTAH, *St. Xavier's College*. Principal—Rev. A. Bonhoure, S.J. 28 other Teachers.

PALGHAT, *Government Victoria College*. Principal—H. C. Papworth, M.A. (on leave) ; W. C. Douglas, M.A. (acting). 22 other Teachers.

TINNEVELLY, *Hindu College*. Principal—Alex. Gnanamuthu, M.A. 19 other Teachers.

TRICHINOPOLY, *National College*. Principal—V. S. Ayyangar, M.A. 16 other Teachers.

TRICHUR, *St. Thomas' College*. Principal—Rev. J. Palocaren, M.A. Edin. 21 other Teachers.

TRIVANDRUM, *Maharaja's College for Women*. Principal—Miss F. E. Grose, M.A. Camb. 27 other Teachers.

## CONSTITUENT SECOND GRADE COLLEGE

MADRAS, *Wesley College*. Principal—Rev. T. R. Foulger, M.A. 13 other Teachers.

## AFFILIATED SECOND GRADE COLLEGES

BANGALORE, *Sacred Heart College*. Principal—Sister Mary of the Divine Heart. 4 other Teachers.

CALICUT, *Malabar Christian College*. Principal—Rev. A. Streekeisen. 12 other Teachers.

CALICUT, *Zamorin's College*. Principal—A. V. K. K. Menon, M.A., B.L., L.T. 12 other Teachers.

COIMBATORE, *Government College*. Principal—G. Sambamurti, B.A., L.T. 12 other Teachers.

KOTTAYAM, *C.M.S. College*. Principal—C. K. Thomas, B.A., L.T. 18 other Teachers.

MANGALORE, *Government College*. Principal—G. K. Chettur, M.A. Ox. 13 other Teachers.

MANNARGUDI, *Findlay College*. Principal—Rev. C. T. Hartley, M.A.

NAGERCOIL, *Scott Christian College*. Principal—G. W. Trowell, B.Sc. Lond. 11 other Teachers.

PALAMCOTTAH, *St. John's College*. Principal—Rev. H. P. Young, M.A. Camb., B.Litt. Durham (on leave); Rev. C. R. W. Bennett, M.A. (acting). 9 other Teachers.

PALAMCOTTAH, *Sarah Tucker College*. Principal—Miss E. M. Chambers, M.A. Ox. 7 other Teachers.

PUDUKOTTAH, *Maharaja's College*. Principal—N. T. Ayyar, M.A., L.T. 12 other Teachers.

SALEM, *Salem College*. Principal—A. R. Goundar, M.A., L.T. 8 other Teachers.

TELLICHERRY, *Government Brennen College*. Principal—T. M. K. Nedungadi, M.A., L.T. 10 other Teachers.

TRICHINOPOLY, *Holy Cross College*. Principal—Sister Sophie, B.C. 8 other Teachers.

VANIVAMBADI, *Islamiah College*. Principal—Ahmed Ali, M.A., L.T. 8 other Teachers.

VELLORE, *Elizabeth R. Voorhee's College*. Principal—Rev. J. J. De Boer, M.A., Ph.D. 13 other Teachers.

## CONSTITUENT PROFESSIONAL COLLEGES

### Engineering

GUINDY, *College of Engineering*. Principal—G. Nagaratnam Ayyar, B.A., B.E., M.I.E. Ind. Profs. : *Civil Eng.*—K. C. Chakko, D.Sc. Lond., B.A., M.Sc.,

M.I.E. Ind.; P. A. Midha, M.Sc., M.Eng., M.I.S.E. *Electr. Eng.*—W. A. Wales, B.Sc. *Maths.*—S. K. Ayyar. *Mech. Eng.*—J. H. C. Kann, B.Sc. Lond. *Surveying*—W. C. Old. 22 Instructors, 12 Workshop Assts.

### Law

MADRAS, *Law College*. Principal—K. Krishna Menon, M.A. Ox., LL.B. Lond., B.C.L. Prof.: S. Govindarajulu, B.A. Camb., B.L., LL.B. Camb. Other Lectrs.: T. S. V. Ayyar, M.A., B.L.; N. Sivaraj, B.A., B.L.; K. V. V. Ayyar, B.A., M.L.; Hamid Ali, M.A., D.C.L.; G. R. Reddy, B.A., B.L.

### Medicine

MADRAS, *Medical College*. Principal—Lt.-Col. C. Newcomb, I.M.S., M.B., B.Ch., D.M. Profs. and Teachers: *Anæsthesia*—P. V. Francis. *Anat.*—P. K. Koshy, B.A., M.B.B.S., F.R.C.P. *Bact.*—S. Ramakrishnan, I.M.S., L.R.C.P.S., D.T.M. & H. *Biol.*—P. J. Sundar Rao, M.A., F.B. *Chem.*—The Principal. *Dent. Surg.*—J. B. Chenoy, L.D.S., R.C.S. *Ear, Nose, and Throat*—P. V. Cherian, M.B.B.S., F.R.F.P.S. Glas., F.R.C.S., D.L.O. *Hæmat. and Card.*—T. Krishna Menon, M.B., C.M., M.R.C.S., L.R.C.P. *Hyg.*—R. Adiseshan, L.R.C.P.S., L.R.F.P. & S., D.P.H. *Infec. Dis.*—S. E. D. Masilamani, M.B.B.S., B.S.Sc. *Med. Jurisp.*—M. L. Kamath, B.A., M.D., C.M. *Med. Therap.*—M. R. G. Mudaliyar, B.A., M.D., C.M. *Med.*—Lt.-Col. J. M. Skinner, M.B., D.T.M., I.M.S. *Mental Dis.*—H. S. Hensman, L.M.S., M.R.C.S., L.R.C.P., M.P.C. *Middw.*—Lt.-Col. W. C. Paton, I.M.S. *Obst., Gynec. and Dis. of Children*—Rao Bahadur A. L. Mudaliyar, B.A., M.D. *Ophthalmol.*—Major P. Verdon, I.M.S. *Pathol.*—A. N. Goyle, M.B., Ph.D. *Pharmacol.*—J. C. David, M.B.B.S., Ph.D. Edin. *Physics*—C. P. Narayana Ayyar, M.A., L.T. *Physiol.*—B. T. Krishnan, B.A., M.B.B.S., M.Sc. *Radiol.*—M. J. S. Pillai, L.M.S., L.R.C.P., L.R.F.P. & S., D.R.M.K. *Surg.*—Lt.-Col. R. G. G. Croly, M.B., B.Ch., D.T.M. & B., F.R.C.S.E., I.M.S. (on leave); Lt.-Col. F. J. Anderson, I.M.S. *Surg., Operat.*—Lt.-Col. K. G. Pandalai, M.B., C.M., F.R.C.S., I.M.S. *Surg., Princ. and Pract. of*—N. Mangesh Rao, M.B., C.M., F.R.C.S., F.R.C.P.S.I. *Tuberculosis*—Rao Bahadur M. Kesava Pai, M.D., C.M. *Vaccin.*—C. S. G. Pillai, M.B., C.M., L.R.C.P. & S., D.P.H. Edin. *Vener. Dis.*—..... 56 Assistants.

### Teaching

MADRAS, *Lady Willingdon Training College*. Principal—Miss J. M. Gerrard, M.A. Other Profs.: Miss M. W. Barrie, M.A.; Miss C. N. N. Ammal, B.A., L.T., B.Sc. Lond. and Camb.; Miss L. Philipsz, M.A., L.T. 5 other Teachers.

MADRAS, *St. Christopher's Training College*. Principal—Miss K. N. Brockway, M.A. Camb. Other Profs.: Miss V. K. Black, B.Sc. St. And.; Miss C. Eipe, M.A. Tor. 3 other Teachers.

SAIDAPET, *Teachers' College*. Principal—H. Champion, M.A. Other Profs.: Rao Sahib P. K. A. Ayyar, M.A., L.T. (Vice-Pr.); Miss C. Gordon, Ed.B.; S. B. Ayyar, B.A., L.T.; C. N. E. Mudaliyar, M.A., L.T.; N. S. Ayyar, M.A., L.T.; K. R. G. Reddiar, M.A.

## AFFILIATED PROFESSIONAL COLLEGES

### Agriculture

COIMBATORE, *Agricultural College*. Principal—C. Tadulingam, F.L.S. 5 Profs., 12 Asst. Lectrs.

## Law

TRIVANDRUM, *Maharaja's Law College*. Principal—M. K. G. Pillai, B.A., B.L. 2 other Profs., 6 other Teachers.

## Teaching

TRIVANDRUM, *Training College*. Principal—Rao Bahadur K. V. R. Ayyangar, M.A. 5 other Profs., 6 other Teachers.

## APPROVED INSTITUTIONS

## Oriental Learning

Two Sanskrit Colleges in Madras and 14 in other towns are recognized as qualified to provide instruction for the Oriental Titles.

## THE YEAR 1931-32

**BENEFACTIONS.** Two endowments each of Rs 1500 for founding prizes.

**NEW BUILDINGS.** The superstructure of the Laboratory Buildings almost complete. Foundations for Departmental Building—to accommodate the Research Depts.—commenced.

**NEW POSTS.** Lectrs. appointed for the Dipl. Courses in Geog. and Indian Music.

**OTHER DEVELOPMENTS.** A scheme for the formation of a "University Union and Athletic Club," approved. Arrangements are being made to start the Union during the academic year 1932-33.

**CHANGES IN REGULATIONS.** The Regns. relating to Law, Medical, and B.Sc. (Ag.) Exams.

**HONORARY DEGREES.** *LL.D.*—H.H. Sri Padmenabha Sevini Vanchi Dharma Vardhini Raja Rajeswari Setu Lakshmi Bayi, C.I, Senior Maharana of Travancore; Sir Chettur Sankaran Nair, C.I.E., B.A., B.L.; The Rev Earle Monteith Macphail, C.B.E., C.I.E., M.A., D.D.; Diwan Bahadur Sir R. Venkataratnam Nayudu, M.A., L.T., D.Litt.; Sir P. S. Sivaswami Ayyar, K.C.S.I., C.I.E., B.A., B.L.; The Rt. Hon. Mr. V. S. Srinivasa Sastri, P.C., C.H., B.A., L.T.; Sir M. Akbar Hydari, Nawab Hyder Nawaz Jung Bahadur, B.A.; The Hon. Diwan Bahadur Rajah Sir S. Rm. M. Annamalai Chettiyar, of Chettinad. *D.Litt.*—Mahamahopadhyaya V. Swaminatha Ayyar; Sir Joseph Henry Stone, C.I.E., M.A.; The Rev. William Meston, M.A., B.D., D.D. *D.Sc.*—Sir Chandrasekhara Venkata Raman, M.A., Ph.D., D.Sc., LL.D., F.R.S.

**STUDENTS.** Full-time: total, 16,108. Part-time: total, 119, including 50 graduates.

**DEGREES OBTAINED.** M.I., 6; B.L., 463; M.D., 3; B.S.Sc., 1; M.B., B.S., 43; L.M. and S., 35; B.E., 21; B.Sc., 11; B.Sc. (Agric.), 30; L.T., 188; D.Sc., 2; M.Sc., 3; M.A., 159; B.A. (Hons), 244; B.A., 1916; *Oriental Learning*: Siromani, 35; Vidvan, 39; Afzal-ul-Ulama, 4; Munshi-i-Fazil, 4; Dipl. in Econ., 12; Dipl. in Mod European Langs., 18.

# UNIVERSITY OF MYSORE

CHANCELLOR—H.H. SRI KRISHNARAJA WADIYAR BAHADUR, G.C.S I.,  
G B.E , Maharaja of Mysore

PRO-CHANCELLOR—H H. SRI KANTHIRAJA NARASIMHA RAJA WADIYAR,  
G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—Dr. E. P. METCALFE, D Sc. Lond , F.Inst.P.

REGISTRAR—V. GOPALASWAMI AIENGAR, M A.

LIBRARIAN—N. NARASIMHA MOORTY, M.A , B L.

(U.) = Univ. Professor.

## PROFESSORS, LECTURERS, ETC.

- |   |   |
|---|---|
| <p><i>Archæology</i><br/>Krishna, M. H , M.A., D.Lit Lond.<br/>Director</p> <p><i>Botany</i><br/>Sampatkumaran, M A., Ph.D.,<br/>S.M. Chic. Prof.<br/>2 Asst. Profs., 2 Lectrs., 6 Demrs.</p> <p><i>Chemistry</i><br/>Sanjiva Rao, B., M.A., Ph.D.<br/>Lond. Prof.<br/>Manjanath, B. L., M.Sc. Lond ,<br/>D Phil Ox Prof.<br/>4 Asst Profs., 8 Lectrs., 10 Demrs.</p> <p><i>Education</i><br/>Jacob, T. N., M.A., Ph.D. Prof.<br/>2 Asst. Profs.</p> <p><i>Engineering</i><br/>Iyer, V. Ganesha, B A , M.I Mech E.<br/>(Principal, College of Engineering)<br/>Prof. (Civ. E.).<br/>Ramaswamy, E. K., B.Sc. Lond.,<br/>A.C.G I. Prof. (Mech. E.).<br/>Das, J. P., B.A., M.Sc.<br/>Prof. (El. E ).<br/>Joshi, K. D., M.A , B E<br/>Prof. (Civ E )<br/>4 Asst. Profs., 3 Lectrs., 7 Instrs.,<br/>4 Lab. Assts.</p> <p><i>English</i><br/>Mackintosh, A. B., M.A. Ox , M.A.<br/>St. And. Prof. (U.).</p> | <p>Rollo, J. C , B A. Ox., M A. Glas.<br/>Prof (Principal, Maharaja's College) (U.).</p> <p>Sell, F. R., M.A. Ox.<br/>Prof (Principal, Cent. Coll.) (U.).</p> <p>McAlpine, E. G., M.A Edin.<br/>Prof (U.) (on Foreign Service).</p> <p>Srikantia, B. M., M.A., B.L.<br/>Prof. (U.).</p> <p>Hensman, Mrs. H. S., M.A. Prof.<br/>8 Asst. Profs., 6 Lectrs., 8 other Teachers.</p> <p><i>French</i><br/>Fenga, Father, B A. Lectr.<br/>Collart, Father R. M. Lectr.</p> <p><i>Geology</i><br/>..... Prof.<br/>2 Asst. Profs., 2 Lectrs., 5 Demrs.</p> <p><i>Hindustani, Persian, and Arabic</i><br/>Aga M Abbas Shooshtry Prof.<br/>2 Tutors, 4 Munshis.</p> <p><i>History, Economics, and Political Science</i><br/>D'Souza, V. L , B.A., B.Com. Lond.<br/>Prof.<br/>Krishna, M. H., M.A., D.Lit. Lond.<br/>Prof.<br/>Abhayambal, Sri U., M.A., Ph.D.<br/>Lond. Prof.<br/>4 Asst. Profs., 11 Lectrs., 4 Tutors.</p> |
|---|---|

*Kannada*

Srikantia, B. M., M.A., B.L.  
 Hon. Prof.  
 Venkannaia, T. S., M.A., LL.B.  
 Prof.  
 Krishnasastry, A. R., M.A.  
 Asst. Prof  
 5 Pandits, 3 Lectrs.

*Mathematics and Statistics*

Iyengar, K. S. K., B.A. Camb.  
 [Prof.  
 Madhava, K. B., M.A. Prof.  
 Gopalaswami, Aiengar V., M.A.  
 Prof.  
 5 Asst. Profs., 10 Lectrs., 12 other Teachers.

*Philosophy, Psychology, and Logic*

Wadia, A. R., B.A. Prof. (U.).  
 Gopalaswamy, M. V., B.A., B.Sc.,  
 Ph.D. Lond. Prof.  
 6 Lectrs. and 5 other Teachers.

*Physics*

Venkatesachar, B., M.A.  
 Prof (U.).  
 Telang, Venkata Rao, A., M.A.  
 Prof.  
 5 Asst. Profs., 4 Lectrs., 11 other Teachers.

*Sanskrit*

Srinivasachar, D., M.A. Prof.  
 1 Asst. Prof., 2 Lectrs., 3 Tutors,  
 4 Pandits (2 Visiting).

*Tamil and Telugu*

4 Pandits.

*Zoology*

[Prof.  
 Narayana Rao, C. R., M.A., L.T.  
 1 Asst. Prof., 3 Lectrs., 5 Demrs.

*Medicine*

Robinson, J. F., B.A., M.D.,  
 F.R.C.S., F.A.C.S.  
 (Surgery) Prof.  
 Subba Rao, A., B.A., D.Sc Lond.,  
 (Physiol. & Embryol) Prof.  
 Seshachalam, T., L.M.S., L.R.C.P.,  
 M.R.C.S. (Anatomy) Prof.  
 Krishnaswami Rao, C., B.A., M.B.,  
 C.M., M.R.C.P. Lond.  
 (Medicine) Prof.  
 Srikantia, C., B.A., D.Sc.  
 (Chem) Prof.  
 Sambasivan, B. G., M.B., B.S.,  
 M.R.C.S. Eng., L.R.C.P.  
 Lond (Pathology) Prof.  
 Captain, Miss Kh. S., M.D., B.S.  
 Lond, D.T.M. & H Eng,  
 L.M. Dub. (Midwifery) Prof.  
 Subba Rao, P R., L.M.S., L.R.C.P.  
 Lond, M.R.C.S. Eng.,  
 D.O.M.S (Ophthalmol) Prof.  
 Ponnambalam, A.M., B.A., L.M.S.,  
 M.R.C.P. (Ed.), D.O.M.S.  
 (Pharmacol) Prof.  
 Asst. Profs. (one in each subject) in  
 Bot., Zool., and Physics.  
 Lecturers (one in each subject)  
 in Chem., Biol., Physics,  
 Pharmacol, Med, Surg,  
 Midw., Ophthalm. (Two in  
 each subject) in Pathol., Hyg,  
 Jurispr., Mental Diseases, and  
 Dental Surg. (Three in each  
 subject) in Anat. and Physiol.  
 2 Demrs. in Anat. and 1 in  
 Physiol.  
 1 Demr. in Pathol. and 1 in Bio-  
 Chem.  
 2 Demrs. in Surg.  
 2 Demrs. in Medicine.

## CONSTITUENT COLLEGES

THE MAHARAJA'S COLLEGE, Bangalore. Principal and President—J. C Rollo, M.A. Glas., B.A. Ox.

THE CENTRAL COLLEGE, Bangalore. Principal and President—F. R. Sell, M.A. Ox.

THE COLLEGE OF ENGINEERING, Bangalore. Principal and President—V. Ganesha Iyer, B.A., M.I.Mech.E.



THE MEDICAL COLLEGE, Mysore. Principal and President—J. F. Robinson, B.A., M.D., F.A.C.S., F.R.C.S.Ed.

THE MAHARANI'S WOMEN'S COLLEGE, Mysore. Offg. Superintendent and President—Dr. Sri U. Abhayambal, M.A., Ph.D.

## GENERAL INFORMATION

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges mentioned above. There are also six Intermediate Colleges, four for men at Mysore, Bangalore, Tumkur, and Shimoga, two for women, one at Bangalore and the other at Mysore, and a Medical School at Bangalore. The capital cost of all the Univ.'s buildings amounts to Rs. 12,90,240.

LIBRARIES. Univ., 21,108 vols.; Colleges, 48,872 vols.; Sansk. and Oriental, 16,885 vols. and 10,506 MSS.

FACULTIES. Arts, Science, Medicine, Engineering and Technology.

TERMS : July to Oct., Nov. to March.

ADMISSION to B.A. or B.Sc. courses is normally by Intermediate examn. in English, a second language, and three other subjects. Candidates prepare for this by two years' study in Intermed. Colleges after the ordinary High School course. Admission to the B.E. course is by the Inter. Examn. in Science (leading to Eng.). Admission to the M.B., B.S. course is by the Inter. Examn. in Sci. (leading to Medicine). The B.Com. course suspended for the present.

DEGREE COURSES. 2 yrs.—B.A. or B.Sc. (Pass); 3 yrs.—B.A. or B.Sc. (Hons.); 4 yrs.—B.E. (successful candidates are eligible to take the degree after a year's practical course in a recognized firm); 5 yrs.—M.B., B.S.; graduate course for M.A.—2 yrs., for B.T. 1 yr after the B.A. or B.Sc. Courses for M.A. and M.Sc. in Mathematics, 2 yrs. after B.A. or B.Sc. The D.Litt., D.Sc., and LL.D. are Honorary.

DIPLOMA COURSE. L.M.P., 4 yrs. after High School.

RECOGNITION OF DEGREES and examns. of other Univs. : (1) The B.A. and B.Sc. Degrees of other Indian Univs. are deemed equivalent correspondingly to the B.A. and B.Sc. of this Univ. for purposes of admission to the M.A. and M.Sc. courses, provided the degree examns. have been passed in cognate subjects. (2) The B.A. or B.Sc. of other Indian Univs. is accepted for admission to the B.T. course. (3) The Inter. Examn. of other Indian Univs. is recognized for admission to the B.A. and B.Sc. courses of this Univ., subject to the approval of the Univ. council in cases in which specific recognition has not been agreed to. (4) The B.A., B.Sc., M.A., M.Sc., and B.L. of the Dacca Univ. = the corresponding degrees of this Univ. and admit to corresponding privileges. (5) The degrees of the Lucknow Univ. = the corresponding degrees of this Univ. (6) The B.A. and B.Sc. of the Aligarh Muslim Univ. = the B.A. (Arts and Science) of this Univ. for admission to higher courses in the subjects taken for the degree. (7) B.A. and B.Sc. Degrees of Delhi Univ. = corresponding degrees of this Univ. (8) The B.A. Degree of the Andhra University is recognized for admission to the M.A. and B.T. classes of this University. (9) B.A. and B.Sc. Degrees of the Agra University = the corresponding degrees of this University. (10) Candidates who have passed the Cambridge Examn. (Senior Local) and the Oxford Certificate Examn. (Senior

Local) are admitted to the Junior Inter. class of this Univ. for courses of study approved by Council. (11) The B.A. Degree Examn of Annamalai Univ. has been recognized as equivalent to the B.A. Examn of this Univ. (12) The B.A. Degree Examn. of Bombay Univ. has been recognized as equivalent to the B.A. Examn of this Univ.

RECOGNITION BY OTHER UNIVERSITIES. Calcutta: (1) B.A. and B.Sc. Mysore are admitted to Calcutta M.A. and M.Sc. courses equally with B.A. and B.Sc. Calc.; (2) Inter. Exams in Arts and Sci. of Mysore Univ. = the corresponding examns of Calcutta Univ.

Bombay: (1) The B.A. Examn. of this Univ. = the B.A. Examn. of Bombay Univ. (2) The Inter Arts and Inter. Sci. Examns of this Univ. = the corresponding examns. of Bombay Univ. (3) For admission to Bombay B.Com. Degree Examn. graduates in Arts or in Commerce of Mysore are on same footing as graduates in Arts or in Commerce of Statutory Indian Univs. (4) The B.Sc. Examn. of the Mysore Univ. is recognized as equivalent to the B.Sc. Examination of the Bombay Univ for the purpose of admission to the M.Sc. Examn. of that University. (5) Bachelors of Engin. of this Univ., who have practised as Civil, Mech., or Elec. Engrs. for at least 3 years after graduation, are admitted to the M.B. Examn. (Civil, Mech. or Elec.) of Bombay Univ.

Madras: (1) Degree examns. of this Univ. are recognized for admission to the Law Colls. and Teachers' Colls. of Madras Univ.; (2) Mysore B.A. (Science) and B.Sc. who have taken Physics, Chem., Biol., or Maths. for degree course are admitted to Madras medical courses.

Panjab: Mysore B.A. and B.Sc. are admitted to post-graduate study equally with B.A. and B.Sc. Panj.

Benares: recognition similar to Calcutta (1).

Mysore degree examns. = those of Allahabad.

Lucknow: (1) Degree examns. of this Univ. = corresponding examns. of Lucknow Univ. (2) Inter. Examn. of this Univ. admits to courses for degrees in Lucknow Univ.

Dacca: (1) Mysore degree = corresponding Dacca degree for admission to courses of study for degrees. This does not apply necessarily to degrees with honours. (2) Inter. Examinations of this Univ. admit to courses for degrees in Dacca Univ.

Aligarh: all Mysore examns. are recognized.

Annamalai: (1) The Inter. Arts and Inter. Sci. Examns. of this Univ. = the corresponding examns. of Annamalai Univ. (2) The B.A. Examn. of this Univ. = the B.A. Examn. of Annamalai Univ.

Nagpur: (1) B.A. and B.Sc. Examns. of this Univ. = the corresponding examns. of Nagpur Univ. (2) Inter. Arts and Sci. Examns. of this Univ. = corresponding examns. of Nagpur Univ.

Agra: The Inter. and Degree Examns. of this Univ. are recognized by Agra for admission to higher courses of study.

The Univ. has been approved by the Council of Legal Education for purposes of admission to the Inns of Court of London.

Chartered Accountants: Graduates of this Univ. are exempted from the Prelim. Examn. of the Inst. of Chartered Accountants.

The B.A. and B.Sc. Degree Examinations of the Mysore Univ. are recognized for purposes of admission to French Universities with a view to the degree of *Docteur de l'Université* in Arts, Science, and Law.

The Inter. Certificate of this Univ. is accepted as a qualifi. for admission to a degree or other course at a French Univ. subject to attestation by the Universities Bureau of the British Empire. See also Appendix XXII. for recognition by Home Univs.

INSPECTION OF INTERMED. COLLS. not forming parts of Constituent Colls. is made by Profs. deputed by the Council.

SCHOLARSHIPS OF Rs. 75 and Rs. 60 respectively are awarded for Research work under the profs. of this Univ. and Post-graduate study outside the State—four each ordinarily.

FEES for courses for B.A. (Pass), Rs. 96 + 12 (for Science subjects) a yr.; B.A. (Hons.), Rs. 120 a yr.; B.Sc. (Pass), Rs. 120 a yr.; B.Sc. (Hons.), Rs. 144 a yr.; M.A., Rs. 120 a yr., and M.Sc., Rs. 144 a yr.; (B.E., Rs. 150 a yr.; M.B., B.S., Rs. 200 a yr.; B.T., Rs. 80 a yr.; and L.M.P. (Diploma), Rs. 60 a yr.; Inter. Arts, Rs. 72 + 8 (for Sci. Subjects); Inter. Sci., Rs. 88 a yr.

RESIDENCE. Univ. Hostels at Mysore and Bangalore and Students' Lodges at Tumkur and Shimoga. The average hostel exs. for 9 mos. is about Rs. 220. Residences of students not living in hostels or with their guardians are inspected by members of Students' Residence Committees.

A STUDENTS' INFORMATION BUREAU is maintained.

EXTENSION LECTURES. A Committee appointed by the Univ. Council and consisting of Profs. and others makes arrangements for courses of lectures on suitable subjects for the benefit of those unable to attend the ordinary courses of study at the Univ., and to publish such of the lectures as may be approved by the Committee. (There were 15 courses in the year, of which 8 were delivered in Kannada.)

PUBLICATIONS. *Calendar*; *Examination Papers*; Half-yearly *Journal of Arts and Sciences*; *The Prabuddha-Karnataka* (Kannada Quarterly); *Tarkatandava*, vol. 1. (Sansk.), and *Sakala Vaidya Samhita Saranava* (Kannada); *The Mysore Tribes and Castes* (vol. iv.) (English).

## THE YEAR 1931-32

BENEFACTIONS. Mr. Moogaley Shamanna, Rs. 2000; The Huriyanna Memorial Committee, Rs. 2000; Sri Lakshmibayamma, Rs. 4000; The Bowen Memorial Scholarship, Rs. 14,000.

NEW BUILDINGS. The Medical College—first stage—completed.

NEW DEVELOPMENTS. M.A. and M.Sc. Courses under the new rules instituted. Revision of the Hons. Courses in Arts subjects under consideration.

CHANGES IN REGULATIONS. Restriction of the Second Lang. to Kannada and Urdu removed. Special Courses for the I.Sc. leading to Med. and to Engin. abolished, and consequential revision of Intern. Courses in hand.

VISITS OF TEACHERS FROM OTHER UNIVS. The Indian Science Congress Session of 1932 was held in Bangalore under the auspices of the Univ. and a large number of members of other Univs. visited this Univ.

VISITS OF MEMBERS OF THE STAFF TO OTHER UNIVS. OR INSTNS. Mr. A. R. Wadia, Prof. of Philos., attended the annual meeting of the Inter-Univ. Board (India) and delivered the Miller Lectures at Madras.

RETIREMENTS. Prof. P. Sampat Iyengar (Geol.), and Sri K. D. Rukminamma, Superintendent, the Maharani's Coll. for Women, retired; Prof. S. V. Venkateswara Ayyar (Hist.), reverted to British Service.

STUDENTS. Full-time: total, 2833, including 116 graduates.

DEGREES OBTAINED. B.A. (Old), 129; B.A. (Pass), 54; B.A. (Hons.), 43; B.Sc. (Old), 14; B.Sc. (Pass), 82; B.Sc. (Hons.), 31; M.A., 33; M.Sc., 2; B.T., 24; B.E., 60; M.B., B.S., 5.

# NAGPUR UNIVERSITY

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—M. BHAWANI SHANKER NIYOGI, M.A., LL.M Bom.

TREASURER—RAO BAHADUR V. M. KELKER, M.A. Calc.

REGISTRAR—U. MISRA, M A., LL.B.

ASSISTANT REGISTRAR—K. R. PANDYA, M.A. All.

## UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR. Principal—G. R. Deo, B.A., B.L. Lectrs.—  
J. Sen, B.Sc., LL.B. ; Y. V. Jakatdar, B.A. All. and Ox. ; V. K. Rajwade,  
M.A., LL.M. Bom. ; G. Trivedi, B.A., LL.B. All. ; B. V. Pradhan, B A., LL.B. ;  
M. Fida Hussain.

## OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).\*

HISLOP COLLEGE, NAGPUR (H).\*

ROBERTSON COLLEGE, JUBBULPORE (R).\*

COLLEGE OF SCIENCE, NAGPUR (Sc).\*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).\*

KING EDWARD COLLEGE, AMRAOTI (K).\*

AGRICULTURAL COLLEGE, NAGPUR (A).\*

CITY COLLEGE, NAGPUR (C).\*

\* (M), (H), etc. : symbols for reference to the Colleges.

## TEACHING STAFF

### *Accounts*

Deopujari, S. G., B.Sc. Calh. (A).

### *Agriculture*

McDougall, J. C., M A , B.Sc. Ed (A).

Phatak, B. R., B.Ag. (Poona) (A).

Subba Rao, B., L.Ag. (A).

Mishra, S. K., L.Ag. (A).

Dhanna Lal, L.Ag. (A).

Churchill, E. A., B.Sc. (Edin.) (A).

Rahim, M. A., L.Ag. (A).

Dhamapurkar, V. B., B.Sc. All., (A).

L.Ag.

### *Arabic and Persian*

Aga-Hyder-Hasan, Syed, M.A.

All. (K).

Taqi, S. G., M.A. All. (R).

Iqbal Hussain, Quazi Syed, M.A.

Panj. (M).

Ghani, M. A., M.A., M.Litt. Camb.

(M).

### *Botany and Zoology*

Bhatia, G. S., M.Sc. Panj. (A).

Mahta, D. N., B.A. Ox., F.L.S. (A).

Dastur, J. F., M.Sc. Bom., D.I.C.

(A).

- Shrivastava, K. P. (A). Ghosal, S. C., B.A., B.Sc., LL.B. (T).  
 Varadpande, K. V., M.Sc. (Sc). All. (T).  
 Moghe, M. A., M.A. All., M.Sc. (Sc). Hari Ram, B.A. Panj. (T).  
 Bom. (Sc). Mitra, N. N., B.Sc., L.T. All. (T).  
 Nirula, R. L., B.Sc., Ph.D. Lond., Kanetkar, G. G., M.A. Bom. (T).  
 D.I.C. (Sc). *English*  
 Karamsingh, —, M.Sc. Panj. (Sc). Nascar, P. N., M.A. All. (M).  
 Dutt, G. R., B.A. Panj. (A). Verma, Sheo Prasad, M.A., Ph.D. Lond. (R).  
*Chemistry*, v. also Physics  
 Chakravarti, D. N., M.Sc. All. (K). Virdi, D. S., M.A. (C).  
 Tamhankar, G. R., M.Sc. All. (R). Patel, K. P., M.A. Bom. and Lond. (R).  
 Godbole, S. N., M.Sc. All. (R). Rowlands, W. S., B.A. Ox. (R).  
 Surey, L. S., M.Sc. All. (Sc). D'Souza, L. P., M.A. (K).  
 Kale, V. D., B.Sc. All. (H). Aga-Hyder-Hassan, Syed, M.A. All. (K).  
 Gokhale, L. K., M.Sc. (Sc). Jain, H. B., M.A., LL.B. All. (K).  
 Chandorker, D. V., M.Sc. All. (Sc). Tostevin, F. P., M.A. Ox. (K).  
 Joshi, R. H., M.Sc. (A). Ganguli, N., M.A. All. (M).  
 Iyer, A. R. P., B.A. Mad. (A). Chordia, S. S., M.A. All. (M).  
 Kayasth, R. N., M.Sc., B.A. Bom. (A). Guha, R. C., M.A. Dacca (M).  
 Kulkarni, J. W., M.Sc. (K). Madan Gopal, M.A. All. (M).  
 Paranjpe, D. R., M.Sc. (Sc). Deshpande, Mrs K., B.A. Lond. (M).  
 Kappanna, A. N., D.Sc. Dacca (Sc). Ghosh, M., M.A. All. (R).  
 Patwardhan, H. W., M.Sc. (Sc). Mitra, M. N., M.A. Dacca (Sc).  
 Krishnamoorthy, K., D.Sc. Lond. (Sc). Nascar, P. N., M.A., L.T. All. (Sc).  
 Patwardhan, S. S., M.Sc. (H). Muley, D. S., M.A. (Sc).  
 Bal, D. V., L.Ag., A.I.C., F.C.S. (A). Maolankar, R. B., M.A., LL.B. (K).  
*Civics*  
 Sen, A., M.A. Calc. (C). Strachan, J. M., B.A. Camb. (H).  
*Economics*  
 McFadyen, Rev. J. F., M.A. Glas., D.D. (H). McFadyen, Rev. J. F., M.A. Glas., D.D. (H).  
 Nanavati, M. H., M.A., LL.B. Bom. (K). Gardiner, T. W., M.A. Camb. (H).  
 Naidu, V. S., M.A. Mad. (R). Gunomani, I. D., M.A. Mad. (H).  
 Raghaviah, W. B., M.A. Mad. (H). *Entomology*  
 Sen Gupta, A. C., M.A. Edin. (M). Dutt, G. R., B.A. Panj. (A).  
 Dadachanji, B. E., M.A. Bom. (M). *History*  
 Seth, H. C., Ph.D. Lond. (M). Hunter, G. R., M.A., D.Phil. Ox. (M).  
 Nair, P. D., M.A. (A). Watchmaker, B. C., M.A. Bom. (R).  
 Singru, M. D., M.A., LL.B. (K). Tostevin, F. P., M.A. Ox. (Dean, Fac. of Arts) (K).  
 Munje, B. H., M.A. (H). Fernandez, T., M.A. All. (K).  
*Education*  
 Macnee, E. A., M.A. Camb. (Dean of Fac.) (T). Gardiner, T. W., M.A. Camb. (H).  
 Gadre, B. N., M.A. All. (H).  
 Hirde Narayan, M.A., B.T. Panj. (M).

- Powar, B. L., M.A. All. (R).  
 Sinha, H. N., M.A. All. (M).  
 Paul, J. N. W., M.A. All. (R).  
 Pahade, J. S., M.A. All. (C).
- Indian Languages, Modern*  
 Pendse, S. D., M.A., M.O.L. Panj. (H).  
 (Marathi) (H).  
 Banhatti, S. N., M.A., LL.B. Bom. (M).  
 Pathak, R. D., M.A. Ben. (R).  
 Kolte, V. B., M.A., LL.B. (K).  
 Dube, M. P., B.Sc. (H).  
 Shukla, T. S., M.A., LL.B. (H).  
 Pandharipande, S. L., M.A. (C).
- Law, v. supra*—Univ. College  
*Mathematics, v. also English*  
 Belekar, S. B., M.A. Bom. (M).  
 Mone, T. V., M.A. Bom. (R).  
 Garde, G. K., M.A. All. (H).  
 Agnihotri, G. P., B.Sc. All. (H).  
 Dhar, S. C., D.Sc. Calc. (Sc).  
 Patel, K. P., M.A. Bom. and Lond. (R).  
 Strachan, J. M., B.A. Camb. (H).  
 Panday, K. D., M.A. All. (K).  
 Iyer, K. S. S., B.E. Mysore (Survey also) (A).  
 Raghavachariar, V., M.A. Mad. (Sc).  
 Shastri, N. A., M.Sc. (Sc).  
 Shabde, N. G., M.Sc. (C).
- Modern European and Classical Languages*  
 Leonie, Sister (French) (M).  
 (Also other members of the staff, who teach other subjects.)
- Mycology*  
 Pandit Rao, D. B., B.Ag. Bom. (A).
- Persian, v. Arabic*
- Philosophy, v. also Engl.*  
 Rowlands, W. S., B.A. Ox. (R).  
 Moses, D. G., B.A. Mad. (H).  
 Ramanatham, P. S., M.A. Mad. (K).  
 Mukerji, J. N., M.A. Calc. (M).  
 Deshpande, B. R., M.A. (C).  
 Robertson, A., M.A. Aberd. (H).  
 Jwala Prasad, M.A. All. (R).  
 Dharamaraj, M. G., M.A. Mad. (H).  
 Franklin, E. W., M.A., B.T. (H).
- Physics, v. also Chem.*  
 De, M. L., M.A. Calc. (R).  
 Matange, D. G., M.Sc. All. (R).  
 Owen, M., M.Sc. Wales (Dean, Fac. of Sc.) (Sc).  
 Kulkarni, J. W., M.Sc. (K).  
 Mukerji, Umadas, M.Sc. (K).  
 Agnihotri, G. P., B.Sc. All. (H).  
 Deoras, R. S., M.Sc. All. (Sc).  
 Thatte, V. N., M.Sc. All. (Sc).  
 Makoday, G. S., M.Sc. (R).  
 Dabadghao, V. M., M.Sc. (Sc).  
 Paranjpe, D. R., M.Sc. (Sc).  
 Ganesan, A. S., M.A., Ph.D. Lond., D.I.C. (Sc).  
 Shahane, S. M., M.Sc. (Sc).  
 Kapre, P. K., M.Sc. (Sc).  
 Doongaji, R. D., B.Sc. (H).
- Sanskrit, v. also English*  
 Somalwar, S. G., M.A. All. (K).  
 Chaturvedi, S. P., M.A. All. (M).  
 Mirashi, V. V., M.A. Bom. (M).  
 Jain, H. B., M.A., LL.B. All. (K).  
 Navlekar, N. R., M.A. All. (R).  
 Bapat, G. B., M.A. Bom. (H).  
 Varadpande, D. V., M.A. (C).
- Veterinary Science*  
 Shukla, P. A. (A).
- Zoology, v. Botany*

## GENERAL INFORMATION

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, and Faculties. The Univ. does not hold a Matriculation Examn., but admits students who have passed (a) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the sanction

of the Govr.-Genl.-in-Council) as equivalent thereto, or (b) the Matricn. Examn. of an Indian Univ.

FACULTIES. Arts, Science, Law, Education, and Agriculture.

DEGREES. B.A., B.Sc., B.Ag., B.T., M.A., M.Sc., Ph.D., D.Sc., LL.B., LL.M., LL.D.

PUBLICATIONS. *Calendar; Annual Report; Examn. Papers; Prospectus*, etc.

## THE YEAR 1931-32

BENEFACTIONS. Mr. G. B. Oka, Rs. 9000 for award of a scholarship in Med. to a Maharashtra Brahmin woman student. Mr. N. K. Behere, Rs. 2000 for prizes for Persian and Urdu by Hindu students and for Marathi and Sanskrit by Mahommedan students. Mr. M. T. Kolte, Rs. 500, for a silver medal for Marathi at the B.A. Examn. Mr. N. S. Pandit, Rs. 500 for a silver medal for English at the M.A. Examn.

CHANGES IN REGULATIONS. The University Act and Ordinances amended to admit *Non-Collegiate* candidates to the M.A. Examn. provided at least 3 academic yrs. have elapsed since they were admitted to the B.A.

EXTENSION LECTURES. Extension Lectures in and outside Nagpur were delivered during the year.

THE STUDENTS INFORMATION BUREAU. The Bureau advises and helps students who go abroad for advanced studies. For the October Session of 1931 the Bureau obtained admission for 6 students to English Universities.

UNIVERSITY LIBRARY. The library contains 18,807 vols. costing about Rs. 86,000.

STUDENTS. 1931-32 : total, 2442, including 544 Post-graduate students.

DEGREES, 1932 : B.A., 198 ; B.Sc., 54 ; M.A., 20 ; M.Sc., 11 ; B.T., 23 ; LL.B., 134.

# OSMANIA UNIVERSITY, HYDERABAD, DECCAN

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G.C.S.I., G.B.E.

CHANCELLOR—MAHARAJA SIR KISHAN PERSHAD BAHADUR, Yamin-us-Saltanat, G.C.I.E.

VICE-CHANCELLOR—NAWAB WALI-UD-DAULA BAHADUR.

REGISTRAR—H. A. ANSARI, B.A. All.

## PROFESSORS, LECTURERS, ETC.

OSMANIA UNIVERSITY COLLEGE (ARTS, SCIENCE, THEOLOGY, AND LAW)

*Principal* (Offg.)—Qazi Muhd. Husain, M.A. Panj., B.A., LL.B. Camb.

*Botany* [Asst. Prof.  
Saiduddin, B.Sc. Bom., M.A. Edin.  
Bari, Abdul, B.Sc. Bom., B.T.  
Alig. (on leave) Asst. Prof.

*Chemistry*  
Muzaffaruddin Qureshi, M.Sc.  
Panj., Ph.D. Berlin Prof.  
Husain, S., M.Sc. Alig., Ph.D.  
Lond. Prof.  
Khan, Mahmood Ahmed, B.Sc. All.  
Asst. Prof.  
Muinuddin, Qazi Syed, Ph.D.  
Lond., M.Sc. Asst. Prof.  
2 Demrs.

*Economics*  
..... Prof.  
Burney, M. Elias, M.A., LL.B. All.  
Asst. Prof.  
Rahman, H., M.A., LL.B. All.  
Asst. Prof. (on study leave).  
Syed, Jafar Hasan, Ph.D. Heidel-  
berg Asst. Prof.

*English*  
Khan, Mirza H. Ali, B.A. Ox.  
Prof.  
Speight, E. E., B.A. Lond. Prof.  
Syed, Abdul Latif, B.A. Mad.,  
Ph.D. Lond. Prof.  
Virabhadru, T., M.A., L.T. Mad.  
Prof.

Ramchandran, S. D., B.A., L.T.  
Mad. Asst. Prof.  
*History* [Prof.  
Khan, Sherwani Haroon, M.A. Ox.  
Khan, Mirza Ali Yar, B.A. Ox.  
Prof.

Hasan, Ibne, M.A. All.  
Asst. Prof. (on study leave).  
Rahman, M. Jamilur, M.A. Panj.  
Asst. Prof.  
Roy Saksena, K. C., M.A. All.  
Asst. Prof.  
Majid, Abdul, M.A. Asst. Prof.  
Husein, Yusuf, D. ès Let. Paris  
Actg. Asst. Prof.  
Topa, I. Nath, Ph.D. Freib.

Asst. Prof.  
*Languages (Ancient and Modern)*  
Haq, Abdul, B.A. All. (Urdu) Prof.  
Haq, Abdul, B.Litt., D.Phil. Ox.  
(Arabic) Prof.  
Nizamuddin, Mohd., Ph.D. Camb.  
(Persian) Prof.

Asst. Profs. :  
Nabi, Syed Ghulam (Arabic).  
Al Qaiti, Saif bin Sultan H., M.A.,  
LL.B. (Arabic).  
Syed Ibrahim (Arabic).  
Khan, Abdul Hamid (Persian).  
Husaini, Qari Syed K., M.A.,  
LL.B., Ph.D. Lond. (Persian).



Faruqi, L. Ahmad, M.A., LL B.  
(Persian).

Husain, Syed Sajjad, M.A. All.  
(Urdu) (on study leave).

Qadri, G. Mohiuddin, M.A., Ph D.  
Lond. Urdu.

Sarwari, M. A. Q., M.A., LL.B. ,,

Joshi, C. N., M.A. Bom. (Marathi).

Rao, T. R. Rama, B.A. Mad. (Kannarese).

Rao, R. Subba (Telugu).

Shastri, Harihar (Sanskrit).

Dhadeshwar, G., B.A. Mad (Sanskrit).

Khan, Mirza Ali Yar, B.A. Ox.  
(French).

Husain, S. Jafar, Ph.D. Heid.  
(German).

#### *Law*

Mirza, Hosain Ali, B.A. Ox. Prof.  
Khan, M. S. Ali, M.A., LL B.,  
Ph D., B.C.L Ox Prof.

Musavi, Akbar Ali, B.A. Bom.,  
LL.B. Alig Asst. Prof.

#### *Mathematics*

Husain, Quazi Mohd., M.A. Panj.,  
B.A., LL B. Camb. Prof.

Chand, Kishan, M.A. Camb. Prof.

Ali, Sh. Barkat, M.A. Asst. Prof.

Khwaja Mohiuddin, M.A. Mad.  
Asst. Prof.

Siddiqi, R., M.A. Camb., Ph D.  
Leipz. Asst Prof.

#### *Morals*

Ahmad, Zahuruddin, D.Litt. Egypt.

#### *Philosophy*

Hakim, Khalifa Abdul, M.A., LL.B.  
Panj., Ph D. Heidelberg (on  
leave) Prof.

Bari, Abdul (Offg) Prof.  
Valiuddin, Mir, M.A. Alig., Ph.D.

Lond. Asst. Prof.

Salahuddin, M., M.A. Dacca ,,

Rahman, M. W., M.A. Panj.

Asst Prof

Lal, Shiv Mohan, M.A., B.T. Alig.

Asst. Prof.

#### *Physics*

Rahman, Wahidur, B.Sc. Calc.

Prof.

Ahmad, Nasir, M.A., B.Sc. All.

Asst. Prof.

Khan, S. Md. A., B.Sc. Lond.,

A.R.C.S. Asst. Prof.

Ali, Syed Mehdi, B.A. Mad., B.T.

Alig., Ph D Götting Asst. Prof.

3 Demrs.

#### *Sociology*

Hasan, Syed Jafar, Ph.D. Heidel-

berg Asst. Prof.

#### *Theology*

Siddiqi, Abdul Qadir Prof.

Asst. Profs. :

Gilani, Manazir Ahsan

Ali, Sher S. (Philosophy of Islam).

Latif, Mufti Abdul (Quran).

Wasay, Abdul (Traditions).

Qadir, Abdul, M.A. (Logic).

Ahmad, Syed F. (Quranic Exe-

gesis).

Maqtadir, Abdul (Muslim Law).

Jafari, Osman (Islamic Law)

#### *Zoology*

Das, B. K., M.Sc. All., D.Sc. Lond.

Asst. Prof.

Rahimullah, M., B.Sc. Alig.

(Actg.) Asst Prof.

### OSMANIA MEDICAL COLLEGE

*Principal*—Major Farhat Ali, B.A. Mad., M.B., Ch.B. Edin.

#### *Pharmacology*

Hardikar, S. W., M.D. Edin.,  
M.R.C.P. Prof.

1 Demr.

#### *Physiology*

Rahman, S. A., M.B., Ch.B. Edin.

Abhynakar, R. N., M.B., B.S.  
Bom Asst. Prof.

1 Demr., 8 Part-time Lecturers.

#### *Anatomy*

Lal, Brij Mohan, M.B., B.S. Bom.,

M.Sc. Lond. Prof.

Sahagal, S. P., M.B., B.S.	<i>Pathology</i>	[Prof. (Acting).
Asst Prof	Nawaz, M. Shah, M B, B S	
1 Demr.	1 Demr.	

## ENGINEERING COLLEGE

*President*—Nawab Ali Nawaz Jung Bahadur, F.C.H.

<i>Applied Mechanics</i>	<i>Geology</i>	
Ali, Mehdi, B E. Mad.	Lectr.	Abbasi, S. Muhammad, B.Sc.
<i>Construction</i>	Panj	Lectr.
Nariman, R. K., M.Inst C.E. Prof.		
<i>Engineering, Civil</i>	<i>Mech. Drawing</i>	
Shah, Samiullah, B.Sc. Manc. Prof.	Hafizullah, Md., B.Sc. Alg., B.Sc.	
Ansari, Ziauddin, M.A., B.Sc.	Rang.	Lectr.
(Eng) Manc	Lectr.	
<i>Engineering, Electrical</i>	<i>Surveying</i>	
Khan, M Afzal Ali, B.Sc. Calc.,	Ghosh, P. K., B.A. Camb., B.Sc.	
B.Sc. Tech. Manc.	Lectr.	Calc.
3 Part-time Lecturers.		Lectr.

## TEACHERS' TRAINING COLLEGE

*Principal*—Mirza, Sajjad, M.A. Camb. *Lecturers*—Ali, M. Sardar, B.A. Panj, B.T. Dac.; Ali, Mir Ahmad, M.A. Delhi, M Ed. Leeds, Shandarkar, D. D., B.A. Bom., B.T. Dac, Ph.D. Lond 3 Part-time Lecturers.

## WOMEN'S COLLEGE

*Principal*—Miss Amina Pope, M.A. Lond., D Litt, L.R.A.M. 5 Lecturers and 5 Part-time Lecturers.

## GENERAL INFORMATION

The University was established by a Firman (Order) of H.E.H. the Nizam in April 1917. Work began in Aug. 1919, with the opening of the College. A Bureau of Translation was established in 1917 to provide text-books in Urdu, which is the medium of instruction. The executive government of the Univ. is in the hands of a Council consisting of 11 members, exclusive of Principals of Colleges. The organization of instruction rests with the Faculties and the Senate, which consists of 70 members, including the Council, Univ. Profs., and representatives of graduates and Faculties. The Univ. is entirely financed by the State at an annual cost of £140,111.

**LIBRARY.** 29,119 vols., 957 MSS. The Staff have also access to the large Asafia Library.

**BUREAU OF TRANSLATION.** Curator, Md. Enayatullah, B.A.; 18 Translators, Assis. and Advisers. Books published, 179; under preparation, 115; in Press, 59.

**FACULTIES.** Arts, Science, Law, Islamic Theology, Medicine, Engineering, and Education.

**TERMS.** July to Dec. and Jan. to April.

The Univ. holds a MATRICULATION examn., but the Matric. examns. of other Univs., the Senior Oxford and Cambridge Local examns. and the State

H.S.L.C. examn., are accepted as equivalent. The B.A. and B.Sc. Courses last 4 yrs., with an Interm. examn. at the end of 2 yrs. The Interm. examn. of other Indian Univs is accepted as equivalent to this. M.A., M.Sc., and LL.B. courses cover each 2 yrs. after graduation. The B.A. in Theol. requires a 4 yrs.' course in Eng., Philos., and Muslim Theol. The M.B., B.S. courses require 5 yrs. The B.E. course is 4 yrs., 3 yrs. Theoretical at the Coll. and 1 yr. Practical. The Dipl. in Education course is 1 yr.

FEES. Interm.—Rs. 60 p.a. ; B.A. and B.Sc.—Rs. 80 p.a. ; M.A. and M.Sc.—Rs. 100 p.a. ; LL.B.—Rs. 80 p.a. M.B., B.S.—Rs. 100 p.a. B.E.—Rs. 100 p.a. Dipl. in Edu.—Rs. 100 p.a.

RESIDENCE. Hostels attached to various Colleges. Cost of living about Rs. 180 p.a.

PUBLICATIONS. *Calendar ; Annual Administration Reports.*

## THE YEAR 1931-32

BENEFACTIONS. Khan Bahadur Ahmad Alaaddin, Rs. 857 ; Officers of the Finance Dept., Rs. 2921 ; Sir Akbar Hydari, Rs. 429, all for Scholarships and prizes.

CHANGES IN REGULATIONS. Examns in Science hitherto controlled by the Fac. of Arts placed under the newly created Fac. of Science and rules and syllabuses for the B.Sc. degree passed. The syllabus of the Matricn. Examn. recast and the pass percentage raised.

NEW DEPARTMENTS. Arrangements for teaching Science up to the Interm. stage made in the Women's College. A separate Dept. of Zool. formed with B. K. Das, D.Sc. Lond., as Professor-in-Charge.

EXTRA-MURAL WORK. The following gentlemen delivered Extension Lectures : Dr. Saluniz Zaman Siddiqi, 2 lectures on Org. Chemistry ; Pandit Brij Mohan Dattatriya Kaifi, Urdu Philology ; Dr. K. de B. Codrington, Keeper of the Indian Section, Victoria and Albert Museum, London, (1) Indian Sculpture, (2) Moghul Art ; Sir Hassan Suhrawardy (Univ. of Calcutta), (1) Modern English Poetry, (2) Modern European Literature, (3) Modern European Stage ; Rao Bahadur Dr. S. K. Aiyangar, Univ. Prof. of Hist., Madras Univ. (retired), Ancient History of Southern India ; Dr. Razuiddin Siddiqi, Quantum Mechanics ; Prof. C. N. Joshi, Shishupalavadha of Bhasker Kavishwar (the oldest Marathi poem) ; Prof. R. Subba Rao, Telugu Literature and Golconda Kings.

RETIREMENT AND DEATH. Mrs. Brown, Lectr., Women's College, retired ; Md. Abdul Aziz, Demr., Osmania Univ. Coll., died.

STUDENTS. Full-time : total, 1048, including 101 graduates. Part-time : total, 1 ; Research Scholars, 11.

DEGREES CONFERRED. B.A. (Theol.), 4 ; B.A. (Arts), 48 ; B.A. (Sci.), 12 ; M.A. (Theol.), 1 ; M.A. (Arts), 4 ; M.Sc., 2 ; Dipl. in Educn., 13 ; M.B., B.S., 7 ; B.E., 6 ; LL.B., 18.

# THE UNIVERSITY OF THE PANJAB, LAHORE

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA

CHANCELLOR—H E. THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—A. C. WOOLNER,  
C.I.E., M.A.

REGISTRAR—P. N. DUTT, B.A.

JOINT REGISTRAR—ISHWAR DAS, M.A , LL.B.

## TEACHING STAFF

[(U.)=maintained entirely by the Univ.]

*Dean of University Instruction*—A. C. Woolner, C.I.E , M.A.

### *Arabic*

Shafi, Md., M.A. Camb. Prof. (U.).

Sadr-ud-Din, M., D.Litt. Lectr.

Najm-ud-Din, M. Lectr.

Kuraishi, B. A., M.A., Ph.D. Lectr.

### *Astronomy*

Lall, P. Samuels, M A , B.Sc.,

F.R.A.S. Reader.

Lal, Sardari, B Sc., B T. Demr.

### *Botany*

Kashyap, Rai Bahadur S. R ,

B.A. Camb., M Sc., I.E.S.

Prof.

Chaudhuri, H., Ph.D.

Reader (U.).

Sethi, M. C., M Sc. Lectr.

Ghose, S. L., M.Sc., Ph D , F L.S.

Lectr

Singh, Charan, M.Sc. Lectr.

Singh, Jiwan, M Sc. Lectr.

Singh, G., M.Sc. Lectr.

Das, H., M.Sc. Lectr.

Ali, Basir, M.Sc. Demr. (U.).

Chopra, R. S., M.Sc. Demr. (U.).

### *Chemistry, Physical*

Bhatnagar, S. S., D.Sc., F.Inst.P.

(Director of Lab.) Prof. (U.).

Dunncliff, H. B., M.A., Sc.D.,

F.I.C., I.E.S. Prof.

Ray, J. N., D.Sc. Reader (U.).

Yajnik, N. A., M.A., A.I.C.

Reader.

### Lecturers :

Datta, G. L., M.A., Ph.D.

Singh, Narinjan, M.Sc.

Singh, Ram, M.Sc.

Singh, Kirpal, M.Sc.

Singh, Dara, M.Sc

Haque, Abdul, M.Sc. (Org. Chem.)

Demr. (U.).

Lal, Pyare, M.Sc.

(Inorg. Chem.) Demr. (U.).

Kapur, A. N , M Sc.

(Phys Chem.) Demr. (U.).

### *Economics*

Jain, L. C , M A , Ph.D.

Reader (U.).

### College Profs. co-operating :

Sondhu, G. D., M.A., I.E.S.

Lucas, Rev. E. D., M.A , D.D ,

Ph D.

Bali, A. N., M.A.

Parshad, I. Durga, M.A., Ph.D.

Kramet, U., B.A.

### *English* (for Science Students)

Sharma, D. C., M.A. Lectr.

### *French* [Part-time Lectr. (U.).

Jones, Lionel

### *German* [Part-time Lectr. (U.).

Kuraishi, B. A., M.A., Ph.D.

*History*

Bruce, J. F., M.A. Camb., M.A.	
Syd	Prof. (U.).
Garrett, Lt.-Col. H. L. O., M.A., I.E.S.	Lectr.
Kohli, S. R., M.A.	Lectr.
Wilson, Rev R. L., M.A.	Lectr.
Khanna, A. R., M.A.	Lectr.
Ram, Sn, M.A.	Lectr.
Chucko, C J., M.A., Ph.D.	Lectr.
Sondhi, G. D., M.A., I.E.S.	Lectr.
Qadir, Abdul, M.A.	Lectr.
Kuraishi, B. A., M.A., Ph.D.	Lectr.

Chopra, G. L., M.A., Ph.D. Lectr.

*Mathematics*

[Prof. (U.).]

Rao, C. V. H., B.A. Camb., M.A.

## Lecturers :

Raj, Hem, M.A.	
Gupta, S. N. Das, M.A.	
Lal, P. Samuels, M.A., B.Sc., F.R.A.S.	
Lal, Mukand, M.A.	
Ram, Sita, M.A.	
Raj, Mul, M.A.	
Hamid, Abdul, M.A.	
Chandra, Vidya, M.A.	

*Persian*

Iqbal, M.A., Ph.D.	Prof. (U.).
Maitra, K. M., M.A. Calc.	Lectr.
Fazl-i-Haq, M.A.	Lectr.
Shairani, Mahmud	Lectr.
Bilgrami, A. H. Sh	Lectr.

*Sanskrit*

Woolner, A. C., C.I.E., M.A. Ox.	
P'pal, Oriental Coll. (U.).	
Sarup, Lakshman, M.A., D.Phil.	
Ox.	Prof. (U.)

## Lecturers :

Singh, G., M.A., LL.B.	
Sirkar, M. K., M.A.	
Aggarwal, J. N., M.A.	
Dutt, Ganesh, M.M.	
Das, Banarsi, M.A., Ph.D.	
Deva, Charu, M.A., M.O.L.	

*Zoology*

Matthai, G., M.A., Sc.D., F.L.S.	
I.E.S.	Prof.
Kumar, Anand, M.A. Camb.	
	Reader (U.).
Nath, Vishwa, M.Sc., Ph.D.	Lectr.
Arora, G. L., M.Sc.	Demr. (U.).
Najmud-Din, M.Sc.	Demr. (U.).

## HONOURS SCHOOL IN TECHNICAL CHEMISTRY

DIRECTOR—P. CARTER SPEERS, B.Sc.

*Chemistry*

Bhatnagar, S. S., D.Sc., F.Inst.P.	
Dunnichiff, H. B., M.A., Sc.D., F.I.C., I.E.S.	
Ray, J. N., D.Sc.	
Yajnik, N. A., M.A., A.I.C.	
Venkataraman, K., M.Sc. (Tech), Ph.D., A.I.C.	

*Industrial Chemistry*

Speers, P. Carter, B.Sc.	
Chand, Mehr, M.A., M.Sc.	
Dean, E. T., B.A., M.Sc.	
Khosla, S. R., A.M.S.T., F.C.S.	
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MacKenzie, A. C., M.A. Aberd.

Lectr.

Htin-si, L., M.A. Calc. Asst. Lectr.

Jembunathan, S., M.A.

Asst. Lectr.

Gopalakrishna Aiyar, P. G., M.A.,  
L.T. Mad. Asst. Lectr.

10 Tutors and Asst. Tutors.

### *Forestry*

Cochrane, R. A., M.A., B.Sc.,  
I.For.S. Prof.

Simmons, E. C., I.For.S. Lectr.

### *Geology and Geography*

Beasley, C. G., M.A. Lond. Prof.  
Slater, L., B.A. Camb. Lectr.

2 Demrs.

### *History*

Hall, D. G. E., M.A. Lond.,  
D.Litt. Lond., I.E.S. Prof.

Luce, G. H., M.A. Camb., I.E.S.  
Lectr.

Brookes, A., M.A. Camb., I.E.S.  
(on leave) Lectr  
Desai, W. S., M.A. Bom. and  
Camb. Asst Lectr

3 Tutors.

#### *Law*

Eggar, A, M A Camb (on leave)  
Prof

Bilmoria, J C., B A. Bom.  
(Offg.) Prof

E-Maung, U, M.A., LL.B. Camb.  
Pt-time Lectr.

Ba Han, U, M A Pt-time Lectr

#### *Mathematics*

Owen, L. G., M.A. Ox., I.E.S.  
Lewis, E. G., B Sc. Lectr

Asst. Lecturers :

Haldar, K. P, M.A, M Sc Calc.

Ka, U, M.A.

Thon, U Po, M.Sc.

3 Tutors.

#### *Oriental Studies*

Tin, Pe Maung, M.A. Calc., B.Litt.  
Ox., I E S. Prof.

Asst. Lecturers :

Cassim, A, B.A. Calc. (Pali).

Win, U Lu Pe, M.A. Calc (Bur-  
mese).

6 Tutors, 1 Translator.

#### *Philosophy*

St. John, W., B.D, Ph.D. Chic.

Prof.

Slator, Rev. R. H. L, M A

Speci Lectr.

#### *Physics*

Aiyar, N. C. Krishna, M A. Mad.,  
F.I.P, F.P.S.L., I E S Prof

Quayle, W C., M.A Liv, B Sc.

Lectr

Basu, R. M, B.Sc. Lond.

Asst. Lectr.

8 Demrs. and Asst. Demrs.

JUDSON COLLEGE : Principal—W. St. John, B.D., Ph D. Chicago.

#### *Biology*

Lecturers :

Gates, G. E., M.A. Harv.

Whitwer, Miss E., M.A. Nebr.

Dickason, F. G., B.A. Wooster.

1 Demr.

#### *Burmese*

Pe, U Tun, M.A. Calc., B L.,  
M.R.A.S., M.L.C. Lectr.

3 Instrs.

#### *Chemistry*

Lecturers :

Scherling, C. C., M.A. Camb.

Shivers, Marion E., M.A. Columbia.

Guha, S. C., M.A. Calc.

1 Demr.

#### *Economics*

Andrus, J. R., A.B. Redlands,  
M.A. Calif. Lectr.

Ohn, U Tin, B.Sc. Lond. Lectr.

#### *English Literature*

Lecturers :

Rickard, S. H., B.A. Bucknell,

Hunt, Helen K., M.A., *Dean of*

#### *Women*

Gyi, J. Kan, M.A. Chic.

Dickason, F. G, B A. Wooster.

Meador, Pauline, M.A. Col.

2 Instrs.

#### *History*

Hendershot, C., M.A Chic. Lectr.

Thomas, E, B.A. Asst. Lectr.

Buchanan, Miss E. M A, B A.

#### *Mathematics*

Campbell, W. B., B.Sc. (M E.)

Penn., M.A. Corn. Lectr.

Ghatak, M., M.A. Calc. Lectr.

Johnson, A. N., M Sc. Asst. Lectr.

#### *Pali*

Chaudhury, R., M A. Calc. Lectr.

Pe, U Tun, M.A. Calc., B.L.,

M.R.A.S., M.L.C. Lectr.

1 Instr.

#### *Philosophy*

[Lectr.

St. John, W., B.D., Ph.D. Chic.

Jury, G. S, M.A. Yale (on leave)	<i>Physics</i>
Lectr.	Lecturers :
Bu, U Hla, M.A. Calc. (on leave)	Smith, D. O., B A. Redl., B.Sc.
Lectr.	Calif. Tech. (on leave).
Slater, Rev. R. H. L., M A. Camb.	Greenwood, G, M Sc. Manc.
Lectr.	Majumdar, N, C., M Sc. Calc.
1 Instr.	1 Demr. Asst. Lectr.

## MEDICAL COLLEGE

Principal—Lt.-Col. L. A. H. Lack, M.B., Ch.B. Edin, I.M.S    Assist-  
ant—V. Noronha, L.M. & S.

<i>Anæsthetics</i>	May, Ma Yin, M.B, B.S., M.R.C.S.,
Singh, Randhir, M.B.E.    Lectr.	M.R.C.P., F.R.C.S.E.    Asst.
<i>Anatomy</i>	<i>Ophthalmology</i>
Lack, Lt.-Col. L. A. H., M.B,    Cormack, Lt.-Col. H. S., M.C.,	
Ch.B. Edin., I M.S.    Prof.	M.B., Ch.B., F.R.C.S.E., D.O.,
1 Demr.	I.M.S.    Lectr.
<i>Bacteriology, v. Pathol.</i>	Jhaveri, M. H., M.B., B.S. Bom.
	Asst.
<i>Contagious Diseases</i> [Lectr.	<i>Pathology and Bacteriology</i>
Writer, J. H., L.M. & S, D P.H.	Malone, Major R. H., M.D., I.M.S.
<i>Dentistry</i> [Lectr.	Prof.
Drinkall, J. H, L.D.S., R.C.S	Kundu, K. P., M B.    Asst.
<i>Forensic Medicine</i>	1 Demr.
.....    Prof.	<i>Pharmacology and Materia</i>
Lyan, T. S., M B, B.S.    Asst.	<i>Medica</i>
<i>Hygiene and Public Health</i> [Lectr.	Jones, Lt.-Col. J. W., D.S.O.,
Aung, San Hla, M.B., Ch.B., D.P.H.	M.D., I.M.S.    Lectr.
<i>Medicine</i>	1 Demr.
Morrison, Major R. V., M.D.,	<i>Physiology</i>
F.R.C.P. Ed., I.M.S.	.....    Prof.
(on leave) Prof.	Chowdhury, H., M.Sc , M.B.
Jones, Lt.-Col. J. W., D S.O ,	Lectr.
M D., I.M.S. (Offg.) Prof.	<i>Radiology</i>
Menon, M. N., M R C.S.    Asst.	Vermani, V. C., M.R.C.S. Eng.,
<i>Mental Diseases</i> [Lectr.	L.R.C.P. Lond.    Lectr.
Robson, Lt.-Col. H.A.H., L.R.C.P.,	<i>Surgery</i>
M.R.C.S., M.B., B.S, I.M.S.	Scott, Lt.-Col. H. B., O.B.E.,
<i>Midwifery and Gynæcology</i>	F.R.C.S.E., I.M.S.    Prof.
Treston, Major M. L., F.R.C.S.	David, M. D., M.B., C.M. Mad.,
Eng., M.R.C.S., L.R.C.P.	F.R.C.S.E.    Asst.
Lond., I.M.S.    Prof.	

## TRAINING COLLEGE FOR TEACHERS

Principal—G. F. Clark, M.A. Glas., Ph.D. Jena, I.E.S.    Lecturer—  
Miss M. E. Scott, M.B.E., M.A. Edin., B.Ed. Edin., I.E.S.    Art  
Master—Ba Zaw, U.

<i>English</i>		<i>Mathematics</i>	
Asst. Lectrs.		Minus, Mrs. I., B.A. (Hons)	
Grant, Mrs I., B.A., B.T.		Asst Lectr.	
De Souza, Miss A., M.A.		Emin, Mrs. O W., B A	
Kamen, Miss A, M.A.		Asst Lectr.	
<i>History and Geography</i>		<i>Physical Training</i>	
Ba, U, B.A., B.Ed.		Tin Hla, D., Ph B.	
Mukerjee, M. L., B.A., B.T.		Barnard, Miss H.	
Asst. Lectr.		Instr.	
		Instress.	
		5 other teachers.	

## COLLEGE MANAGED BY THE UNIVERSITY AND ITS STAFF

### INTERMEDIATE COLLEGE, MANDALAY

Principal—A D Marshall, M A Ox, with 7 Lecturers, 1 Tutor, and 2 Demrs.

## GENERAL INFORMATION

This Univ., founded in Dec. 1920, is governed by a widely representative Council (not more than 70 members), with an Executive Committee of 12 members. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee. The Act of 1920 was amended in 1924.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ. buildings. Buildings for the Univ. and its Constituent Colls. have been completed. An Estate Committee has been constituted to administer the municipal services. The total cost of the estate and buildings, including the Medical Coll., was approx. Rs. 1,65,00,000.

**SPECIAL FEATURES.** The B.Sc. Courses in Forestry; courses in Burmese, in old Mon (Talaing); in Burmese Epigraphy leading to the M.A. (Hons.); course in Far Eastern History with emphasis on Chinese and further Indian studies; special courses in Burmese History. The University has access to a comprehensive collection of MSS. of Pali Pitakas with commentaries, and Talaing MSS. in the Bernard Free Library and is engaged in the collection of similar materials.

**LIBRARIES.** University, 11,500 vols. This Library will be devoted primarily to Burmese and Far Eastern Studies. University College, 39,750 vols.; Judson College, 16,000 vols., Medical College, 1500 vols.; Training College for Teachers, 7600 vols.

**DEGREES.**—B.A. and M.A.; B.Sc. and M.Sc.; B.Sc.Civ.Engin.; B.Sc. Forestry; B.L.; M.B. and B.S. (6 yrs.' course from Intermediate examn.); D.Litt., D.Sc., LL.D., B.Ed.

**DIPLOMAS**, in Forestry and Engin. **CERTIFICATE**, in Teachers' Training.

**ADMISSION.** Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn., or the English High School examn. held by Education Dept. in English, Burmese, Maths., and two optional subjects. Proficiency in English must be shown.



**FEES for Examinations:** B.A., B.Sc., Rs. 30; B.A. (Hons.), B.Sc. (Hons.), Rs. 40; M.A., M.Sc., Rs. 40; B.L., Rs. 40; M.B. and B.S., Rs. 50. Diploma or Licence, Rs. 40; B.Sc. Forestry, Rs. 40; B.Sc. Engin., Rs. 40; B.Ed., Rs. 40, Univ. Trained Teachers' Certif., Rs. 30.

**SCHOLARSHIPS** for advanced study in the United Kingdom. 1 in Psychol. and Philos.; 1 in Engl. Lit.; 1 in Education, 1 in Structl. Engin.; 1 in Midw. (C.M.B.).

**PUBLICATIONS.** *Calendar; Annual Reports; Convocation Addresses.*

## THE YEAR 1931-32

**BENEFACTIONS.** Rs. 10,000 by Raja Dr. S. Ramanatha Reddiar for books

**NEW DEPARTMENTS AND POST.** An additional lecturer in Geog. and Geol. in University Coll. An Institute for research and teaching in Helminthology. A seismographical station and instruments being taken over from the Government of India.

**OTHER DEVELOPMENTS** The Univ. Endowment Fund Trustees contributed Rs. 23,000 and the staffs of the Constituent Colls. Rs. 28,254 by subscription to a relief fund for students unable to pay their fees. The Univ. has constituted a committee to examine the possibility of establishing a Univ. Employment Bureau on the lines of the bureaux maintained by some Univs. in Gt. Britain. The B.Sc. Degree in Engin. has been accepted by the Institute of Engineers (India) for exemption from the Assoc. Membership Examn. The Entrance Board of the Scottish Univs. have recognized the Univ., which is now included in their list of approved Univs. The Institute of Chartered Accountants in England has added this Univ. to the list of approved Univs., graduates of which are exempted from the Prelim. Examn. of the Institute.

**RETIREMENTS.** The Hon. Sir Benjamin Herbert Heald, V.D., M.A., LL.D., I.C.S., Vice-Chancellor. H. L. Holman-Hunt, Esq., C.I.E., Fellow. Lt.-Col. T. F. Owens, I.M.S., Principal, Med. Coll., Rangoon, and a Fellow.

**DEATHS.** Dr. D. C. Gilmore, M.A., D.D., former Principal of Judson Coll. and a Fellow. Lt.-Col. S. T. Crump, I.M.S., Prof. of Midw. and Gynaecol. and a Fellow. Raja S. Ramanatha Reddiar, LL.D., Fellow. The Hon. Sir Lee Ah Yain, Fellow. U Shwe Zan Aung, B.A., K.S.M., A.T.M., Fellow. E. C. Niven, Esq., M.I.C.E., Fellow.

**HONORARY DEGREES.** LL.D.—The Hon. Sir Benjamin Herbert Heald, V.D., M.A., I.C.S. D.Lit.—U Withodda, Thathanabaing, Hd. of the Buddhist Order in Burma; Rev. Robert Halliday. M.A.—U Kyaw Dun, K.S.M.; U Maung Gyi; Mrs. Leslie Milne; U Tin (of Pagan).

**STUDENTS.** Full-time: total, 1653; graduates, 94. Part-time, 21.

**DEGREES.** M.A. (Hons.), 2; M.A. (Pass), 1; M.Sc. (Hons.), 1; M.Sc. (Pass), 1; B.A. (Hons.), 14; B.A. (Pass), 53; B.Sc. (Hons.), 13; B.Sc. (Pass), 38; B.L., 32; B.Sc. (Forestry), 4; B.Sc. (Engineering), 9; Diploma in Teaching, 16; M.B. and B.S., 11; L.M. & S., 1; Diploma in Forestry, 3.

# THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

*Address*—Hebbal, Bangalore District. *Telegrams*—Science, Bangalore.

VISITOR—H.E. THE VICEROY OF INDIA.

DIRECTOR—SIR C. V. RAMAN, M.A. Cal., D.Sc., Ph.D. Freib., LL.D.,  
F R S

## TEACHING STAFF

*Chemistry, General* [Prof.  
Watson, H. E., D.Sc. Lond., F.I.C.  
Kulkarni-Jatkar, S. K., M.Sc.  
Bom. Lectr.  
Krishnaswami, K. R., B.A. Mad.,  
D.Sc. Lond. Lectr.  
Rau, Govinda, M. A., Ph.D. Lond.  
Asst.

*Chemistry, Organic* [Asst. Prof.  
Guha, P. C., D.Sc. Calc.  
Chakravarti, G. C., M.Sc. Calc. Lectr.  
Ayyar, P. Ramaswami, M.A. Mad.  
Asst.  
Rao, B. Sanjiva, B.A. Mad. Asst.  
Iyer, B. H., M.Sc. Bom. Jr. Asst.

*Bio-Chemistry*  
Subrahmanyam, V., B.A. Mad.,  
D.Sc. Lond. Prof.  
Banerjee, B., M.Sc. Calc. Asst.  
Patwardhan, V. N., M.Sc. Bom.  
(on leave) Asst.  
Sastri, B. N., M.Sc. Bom. Asst.

*Electrical Technology*  
Mowdawalla, F. N., M.A., B.Sc.  
Bom. Prof.  
Rudra, J. J., M.A., B.Sc., Ph.D.  
Manc. Lectr.  
Assts. :  
Narayanaswamy, N. V., M.A.  
Mad.  
Apte, G. V., B.E. Bom.  
Junnarkar, N. R., B.E. Bom.

*Mechanical Engineering*  
Rau, K. B. Krishna, B.A., B.E.  
Mad. Lectr.

*Electrical Communication Engineering*  
Sreenivasan, K., B.Sc. Asst. Prof.  
Chakravarti, S. P., M.Sc. Asst.

*French and German*  
Row, K. Amrita, M.A. Mad., L.T.  
Lectr.

## GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

*Associateships* are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Nov.–Dec., Jan.–March) devoted entirely to research work; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates*

are granted to students who satisfactorily complete approved courses of study. 111 Associateships and 1 Fellowship have been granted.

Students reside in a *Hostel*. Messing charges are from Rs. 28 to Rs. 35 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. *Calendar* (annual); Pamphlet describing history, 1911-23; *Journal of the Institute*, about 12 parts annually; *Electrotechnics*, pubd. by the Elec Engin. Soc. The Library contains 20,600 vols.

### THE YEAR 1931-32

RETIREMENTS. Dr. M. O. Forster, Director; Mr. Mirchandani (Elect. Technol) in Aug. 1931, and Mr. Kantebet (Elect. Comm.) in March 1932.

NUMBER OF STUDENTS. Full-time: total, 143, all graduates. Part-time: total, 11, all graduates. Genl. Chem., 25; Org. Chem., 33; Bio-Chem., 31;

# CEYLON UNIVERSITY COLLEGE, COLOMBO

PRESIDENT—H E. THE GOVERNOR OF CEYLON.

PRINCIPAL—R. MARRS, M.A. Ox., C.I.E.

REGISTRAR—F. H. V. GULASEKHARAM, M.A. Madras.

## PROFESSORS AND LECTURERS

### *Botany*

Ball, N. G., M.A., Sc.D. Dub. Prof.  
Sarbadhikari, P. C., M.A. Calc.,  
D.I.C., Ph D. and D Sc. Lond.  
Lectr.

### *Chemistry*

Rae, W. N., M.A. Camb., F.I.C.  
Chandrasena, J. P. C., B.Sc.,  
Ph.D. Lond., D.I.C., A.I.C.  
Lectr.  
Fonseka, E. L., M.Sc. Lond.,  
A I.C. Asst. Lectr.

### *Classics*

Whitely, S., M.A. Ox. Prof.  
Rodrigo, J L. C., M.A. Ox. Lectr.  
Amerasinghe, C. W. Asst. Lectr.

### *Economics*

Das Gupta, B. B., M.A., Ph.D.  
Calc., B.Sc. Lond. Lectr.

### *English*

Hussey, D M., M.A. Camb. Prof.  
Ludowyk, E. F. C., B.A. Lond.,  
B.A. Camb. Lectr.  
Passé, H. A., B.A. Lond.  
Asst. Lectr.

### *French and German*

Jansz, P. L., M.A. Camb. Lectr.

### *Geography*

Robison, L. McD., B.A. Manc. [Lectr.

### *History, Modern*

Pakeman, S. A., M.A. Camb. [Prof.

Dé, J. C., M.A. Calc., M.A. Lond.  
Lectr.

### *Mathematics*

Suntharalingam, C., M.A. Ox.,  
B.Sc. Lond. Prof.  
Caspersz, U. D. R., B.Sc. Lond.  
Lectr.  
Gulasekharam, F. H. V., M.A.  
Madras Lectr.  
Nadaraser, S., M.A. Camb., B.Sc.  
Lond. Asst. Lectr.

### *Philosophy*

The Principal.

### *Physics*

Hinton, J. W., M.Sc. N.Z. Prof.  
Mailvagunam, A. W., B.Sc. Lond.,  
B.A. Camb. Lectr.

### *Sinhalese, Sanskrit, and Pali*

Malalasekera, G. P., M.A. Lond.,  
Ph.D. Lond. Lectr.  
Siddhartha, Thero R., M.A. Calc.  
Lectr.

### *Tamil*

Kingsbury, F., B.A. Mad. Lectr.

### *Zoology*

Burt, D. R. R., B.Sc. St. And.,  
F.L.S. Lond. Lectr.  
Fernando, W., B.Sc., Ph.D. Lond.  
Asst. Lectr.

## GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Government. A College Council, nominated by the Governor of the Colony, advises the Government on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. July-Sept. ; Oct.-Dec. ; Jan.-Mar.

Admission to the Ordinary courses is restricted to students who have passed the London Matriculation Examination or obtained exemption from it. Others may be admitted to special courses on payment of admission fee, Rs. 10 minimum.

Degree Courses are provided for the B.A., B.Sc., and B.Sc. (Econ.) of the University of London. By special arrangement the University holds its Honours examinations in Ceylon in Engl., Classics, Oriental Langs., Hist., Philos., Maths., Chem., Botany, and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Medical College.

ORIENTAL LANGUAGES. Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

FEES FOR TUITION. Full course—Rs. 150 per annum plus Rs. 30 per annum extra for each science subject offered. Single subject : Arts—Rs. 15 per term ; Science—Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 7 of £300 per annum, each tenable for 2 or 3 years in a British Univ.—one for Arts, one for Oriental Langs., one for Science, one for Maths, one for Agric. and Forestry, and two for Engineering. Candidates must have been resident in the Island five years.

PUBLICATIONS. *Prospectus* (July).

## THE YEAR 1931-32

STUDENTS. Full-time : Arts and Pure Science, 349. Part-time students, 6.

DEGREES OBTAINED (Univ. of London) in 1931. B.A., 20 ; B.Sc., 14.

# CEYLON MEDICAL COLLEGE, COLOMBO

PRESIDENT—H E. THE GOVERNOR OF CEYLON.

PRINCIPAL—Dr. R. BRIERCLIFFE, O.B.E., M.B., Ch B. Manc., Director  
of Medical and Sanitary Services of Ceylon.

REGISTRAR—Prof. F. O'B. ELLISON, M.D., B.Ch., B A.O., B.A. Dublin.

## PROFESSORS, LECTURERS, ETC.

### *Anæsthetics, and Materia Med. and Therapeutics*

de Silva, J., M B., C.M. Aberd.,  
D.P.H. Camb. Lectr.  
1 Asst.

### *Anatomy*

Hill, W. C. Osman, Ch.B., M D.  
Birm. Prof.  
2 Demrs., 1 Asst.

### *Bacteriology*

Nicholls, L., M.D., B.Ch., B A.  
Camb. Lectr.

### *Diseases of Children*

Anderson, Miss C. E., M.B., Ch.B.  
Aberd., F R C S E. Lectr.

### *Ear, Nose and Throat Diseases*

Tamby, V. K., M.B., B.S. Madras,  
F.R.C.S., L R C P., D.L.O.  
Lectr.

### *Electricity, Medical, and X-ray*

Gunawardena, H. O., M.B, B S.  
Lond., M.R.C.S. Eng.,  
L.R.C.P. Lond. Lectr.

### *Forensic Medicine and Mental Diseases*

Perera, C. O., M.R.C.S., L.R.C.P.,  
D.P.M, L.M.S. Lectr.

### *Gynaecology*

de Zilwa, L., M.D., B.Sc. Lond. [Lectr.

### *Hygiene*

Gunasekera, S. T., M.R.C.S. Eng.,  
L.R.C.P. Lond., D.P.H.  
Lond. Lectr.

### *Infectious Diseases*

Jacob, K. K., L.R.C.P. and S.,  
L.F.P. and S Glas. Lectr.

### *Materia Medica and Thera- peutics, v. Anæsthetics*

*Medicine* [Lectr.  
Mack, E. Garvin, M.D., B.S. Lond.  
Spaar, E. C., B.A. Lond., M.D,  
B.S., M.R.C.P. Lectr.

### *Medicine, Clinical*

Lectrs. :  
de Zilwa, L. (v. Gynæc.).  
Mack, E. G. (v. Med.).  
Spaar, E. C., M.D., B.S., M.R.C.P.,  
B.A. Lond.  
Cooke, G., M.D., B.S. Lond.,  
M.R.C.S., L.R.C.P.  
Blazé, J. R., M.D., B.S Lond.,  
M.R.C.P., L.M.S.  
Fernando, C. F., M.D., B.S.,  
M.R.C.P.

### *Midwifery*

Navaratnam, S. L., F.R.C.S.E.,  
D.T.M. & H. Lond., L.M.S.  
Lectr.

### *Ophthalmology*

Arndt, E. W., M.R.C.S. Eng.,  
L.R.C.P. Lond., D.O.M.S.,  
L.M.S. Lectr.

### *Pathology*

Karunaratne, W. A. E., M.D.,  
B.S. Lond. Lectr.  
Thiagarajah, S., L.M.S. (Pract. P.)  
Lectr.

1 Asst.

<i>Pharmacy</i>	[Lectr.	Alles, E. C. (v. Surg).
Pinto, C. F. X., M.P.S. Lond.		Gabriel, V (v Surg)
<i>Physiology</i>		Jayasuriya, J H. F, F.R.C.S.
Ellison, F. O'B., M.D, B Ch ,		Eng.
B.A.O., B.A. Dub.	Prof.	Sinnetamby, G. S , F.R.C.S. Eng.,
2 Demrs., 1 Lab. Asst.		L.M.S.
<i>Skin Diseases</i>		<i>Surgery, Operative</i>
Spittel, R. L., L.R.C.P. Lond.,		Sinnetamby, G. S (v. Surg., Clin ).
F.R.C.S. Eng., L.M.S.	Lectr.	
<i>Surgery</i>		<i>Tropical Medicine</i>
Gabriel, V., F.R.C.S.	Eng	Nicholls, L. (v. Bact.)
M.R.C.P. Lond.	Lectr.	Lectr.
Alles, E. C., L.R.C.P.	Lond ,	
F.R.C.S. Eng.	Lectr.	<i>Apothecary Department.</i>
<i>Surgery, Clinical</i>		Lectrs : E. L. Fonseka, M.Sc.
Lectrs. :		Lond , A.I.C., (Chem) ;
de Silva, A. M., F.R.C.S. Eng		G. A. W Wickramasuriya,
Spittel, R. L., F.R.C.S. Eng.		M.R.C.P, F.R.C.S.E , L.M.S.
(v. Skin Dis.).		(Elem Midwif) ; and 10
		Lectrs. of the Coll.

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College, together with the Government Assessor and one member nominated from the Med. Profession generally. The College is recognized by the Gen. Med. Council.

The Medical Depart. provides a 5 years' course for the L.M.S. (Ceylon) : the Apothecary Depart. a 2 years' course for the post of Government Apothecary or Estate Dispenser. Admission to the L.M.S. course is open only to students registered by the G.M.C., who are at least 17 years of age and have passed the London matric. examn. or an exempting examn. and a special examn. in Chemistry, Physics, and Biology.

Tuition Fee, per annum, Rs. 500. Terms : Oct. 1-Dec. 23, Jan 4-March 31, May 1-July 31.

PUBLICATION. *Calendar* (October).

## THE YEAR 1931-32

STUDENTS. L.M.S., 166 ; Apothecary, 57.

DIPLOMAS GRANTED. L.M.S., 19 ; Apothecaries, 22.

# KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

PATRON—SIR CECIL CLEMENTI, K.C.M.G., Governor, Straits Settlements,  
and High Commissioner, Federated Malay States.

PRESIDENT OF COUNCIL—The Hon C. J. WILSON, M.C., M.A., M.D.,  
M.R.C.S., L.R.C.P.

PRINCIPAL—G. V. ALLEN, M.D., B.Ch., B.A.O. Belf., D.T.M. and H.  
Lond.

## TEACHING STAFF

### *Anæsthetics*

Murrell, E. B., B.Ch. Camb.,  
M.R.C.S. Eng., L.R.C.P.  
Lond. Lectr.

### *Anatomy*

Harrower, J. G., M.B., Ch.B.  
Glas., D.Sc. Edin. Prof.  
Oehlers, R. C., L.M.S. Asst.

### *Bacteriology*

Young, W. A., B.Sc., M.B.,  
B.S. Lond., D.T.M. and  
H., Lond., M.R.C.S. Eng.,  
L.R.C.P. Lond. Prof.  
Sen, N. K., M.B. Calc. Asst.

### *Bio-Chemistry*

Rosedale, J. L., Ph.D. Bonn,  
D.Sc. Aberd., F.I.C. Prof.  
Oliveiro, C. J., L.M.S. Asst.  
Chong, L. P. Asst.

### *Biology*

Gater, B.A.R., M.A. Camb., D.I.C. [Prof.  
Sandosham, A. A., L.M.S. Asst.

### *Chemistry*

McOwan, G., M.A., B.Sc., Ph.D.  
St. And., F.I.C. Prof.

### *Infectious Diseases*

Gilmour, C. C. B., M.B., B.Ch. Glas. [Lectr.

### *Medicine*

Hawes, R. B., M.B., B.S. Lond.,  
M.R.C.P. Lond. Prof.  
Norris, V. H., L.M.S. Lectr.

### *Medicine, Clinical*

The Principal (Lectr. in Thera-  
peutics) Prof.

### *Mental Diseases*

[Lectr.

Stone, E. R., M.B., B.Ch. Camb.  
Haridas, G., L.M.S. Tutor.

### *Midwifery and Gynaecology*

English, J. S., B.A., M.D., B.Ch.,  
B.A.O. Dub., L.M. Rotunda  
Prof.  
Da Cotta, A. M., M.R.C.S. Eng.,  
L.R.C.P. Lond., L.M.S., L.M.  
Tutor.

### *Pathology and Forensic Medicine*

Tull, J. C., M.D. McGill, M.R.C.P.  
Lond., L.R.C.P. & S. Edin.  
and Glas Lectr.  
Balasingham, T., L.M.S. Asst.

### *Pharmacy*

Roebuck, T., Ph.C., M.P.S. Lectr.

### *Physics*

Madgwick, E., M.Sc. Durh., Ph.D.  
Camb. Prof.

### *Physiology and Pharmacology*

Kay-Mouat, J. R., M.A. Ox., M.B.,  
B.Ch., D.P.H., M.Sc. Brist.  
Prof.  
Ghosh, K. C., L.M.S. Asst.

### *Public Health*

Sayers, F. R., B.A., M.D., D.P.H.,  
B.Ch., B.A.O. Dub. Lectr.  
Spink, R. G., M.B., Ch.B. Aber.,  
D.P.H. Lond. Demr.

### *Radiology*

Webster, J. S., M.B., B.S., D.P.H.  
Vict., D.M.R.E. Camb. Lectr.

### *Surgery*

Smith, C. J., O.B.E., F.R.C.S.  
Edin. (Senr. Surgeon, Singa-  
pore) Prof.



Black, K., F.R.C.S. Eng., L R C P. Lond., L.D.S. (Lectr. in Oph- thalmol.)	Vellasamy, K., L.M.S. Tutor. <i>Surgery, Dental</i>
Balhetchet, W. A., L.M.S. Tutor.	Tratman, E. K., B.D.S., L.D.S. Brist. Prof
Apparajoo, R., L.M.S. Tutor.	<i>Venereal Diseases</i>
Johns, B. M., M.B., Ch.B. N.Z., F.R.C.S. Edin., D.T.M. & H. Lond. Prof.	Kelly, R. W. C., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

## GENERAL INFORMATION

The Coll. is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Director of Medical and Health Services as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. Since its foundation 249 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916.

*Admission* qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, e.g. London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

**TERMS.** Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 3 to March 31.

**DENTAL SCHOOL.** The School was started in 1928. The course covers 5 yrs. Conditions of admission the same as for medical course. The Diploma in Dental Surgery is registrable in Malaya.

**TUITION FEES.** \$300 p.a.

**RESIDENCE, ETC.** Hostels for 122 students. There is a Students' Union.

**PUBLICATIONS.** *Calendar* (June); *Annual Report*.

## THE YEAR 1931-32

**BENEFACTIONS.** Yearly contribution by Colonial Development Fund of \$600 towards Vitamins Research.

**NEW DEVELOPMENTS.** Determination of larval Trombidids for the Imperial Inst. of Entomology.

**VISITS OF MEMBERS OF STAFF TO OTHER UNIVS** The Prof. of Physiol. visited Sydney Univ., Melbourne Univ., Adelaide Univ., Univ. of W. Australia, Univ. of Tasmania, Univ. of Capetown, Natal Univ. Coll., Pietermaritzburg, Bristol Univ., Edinburgh Univ., Glasgow Univ., Univ. Coll., London, London Sch. of Tropical Med. and Hyg., Charing Cross Hosp., St. Mary's Hosp., King's College Hosp., London, and the Medical College, Weltevreden, Java. The Prof. of Biol. visited Univ. of Cambridge; Univ. of London; Univ. of Leiden, Trinity Coll., Dublin, National Univ. of Ireland (Dublin and Cork), and the Institute of Tropical Med. and Hyg., Amsterdam.

**STUDENTS.** Full-time: total, 135.

## RAFFLES COLLEGE, SINGAPORE

PATRON—H.E. THE GOVERNOR OF THE STRAITS SETTLEMENTS.

PRESIDENT—G. V. ALLEN, M.D., B.Ch, B A O Belf, D T M. & H. Lond.

### PROFESSORS, LECTURERS, Etc.

<i>*Biology</i>		<i>Geography</i>		[Prof.
Gater, B. A. R., M.A., Dipl. Agric.		Amon, H., M.C, B.A. Lond		
Camb., D.I.C.	Actg. Prof.	Murray, T W., B.A Camb.	Lectr.	
<i>Chemistry</i>		<i>History</i>		
McOwan, G., M.A., B.Sc., Ph.D.		Dyer, W. E, M.A. Ox.		Prof.
St. And., F.I.C.	Prof.	<i>Mathematics</i>		
Owen, C. T. J, B Sc Bristol,		Oppenheim, A., B.A Ox.,		Ph.D.
A I.C.	Lectr.	Chic.		Prof.
<i>Education</i>		Cooke, J. C., B.A. Ox.		Lectr.
Amon, H., M.C., B.A. Lond	Prof.	<i>Physics</i>		
<i>English Lang. and Lit.</i>		Madgwick, E., M.C., M.Sc. Durh.,		
Hough, G. G., B.A. Liv.		Ph.D. Camb.		Prof.
(Acting) Johore Prof.		Webb, C. G., B Sc. Lond.		Lectr.
Haworth, K. W., M A. Camb.		<i>*Physiology</i>		[Prof.
Lectr.		Kay-Mouat, J. R., M.A. Ox., M.B.,		
		B.Ch., D.P.H., M Sc. Brist.		

\* By arrangement with King Edward VII. College of Medicine.

### GENERAL INFORMATION

This is a non-Government institution, endowed partly by the Straits Settlements and some of the Malay States and partly by public subscription, managed by a Council of Government officials and private members and advised by a Senate composed of the Professors, the Principal of King Edward VII. College of Medicine, Singapore, the Director of Education, S.S and F.M.S., with the President as Chairman. It was opened in June 1928.

**ADMISSION.** Students will be admitted to the College only after they have reached the age of seventeen, although exceptions may be made for students who have reached the age of sixteen and can furnish a special recommendation from their schools.

Before admission all students must be examined as to physical fitness, and will be accepted only if their standard of health is good. To qualify for admission students must submit a certificate of character from their last school, and must have passed one of the following examinations: (a) The Malayan Cambridge Certificate Examination, or the ordinary Cambridge Certificate Examination with a pass with credit in English; (b) The Final Examination for a degree in Arts or Science in any University of the United Kingdom or British Dominions; (c) The Matriculation Examination of any University in the

United Kingdom or British Dominions ; (d) Any other examination specially approved by the Senate of Raffles College.

Persons not members of the College may be admitted, with the approval of the President, to attend a course of lectures on any subject, on payment of a fee of \$20 a term.

Diplomas are given to students who pass a three yrs.' course. The standard of instruction given in the three yrs.' course aims at that of London Univ B A. (Hons) and B.Sc. (Hons.) in principal subjects, and a pass degree standard in subsidiary subjects. Students are also admitted to study for external degrees of London Univ.

TERMS. Trinity—June 4–August 5 ; Michaelmas—October 1–December 10 ; Hilary—January 2–March 11.

FEES for tuition, \$300 (\$1 = 2s. 4d.) ; board and lodging, \$360 p.a.

RESIDENCE. There are Halls of residence for 120 male students.

SCHOLARSHIPS. One post-graduate scholarship annually, £500 p.a. for 2 yrs., to enable a student of Chinese race or descent to visit and continue his studies at any Univ. or Univs. in Gt. Britain or Ireland approved by the President. The John Anderson Scholarship, awarded from time to time to British subjects of any race or creed of either sex born in the Straits Settlements or Federated or Unfederated Malay States, to enable the scholar to study at Raffles College. The scholarship is awarded for 3 yrs. Two other scholarships, the Singapore Bar Committee Scholarship and the Kelantan Scholarship, will be awarded when the accumulated funds permit. There are further certain Government Student scholarships, value \$20 and \$50 p m. plus fees.

PUBLICATION. *Calendar* (February).

## THE YEAR 1931–32

RETIREMENT. Prof. E. W. Gillett (English), resigned.

STUDENTS. 102 full-time.

# UNIVERSITY OF HONG-KONG

PATRON—H M. THE KING.

CHANCELLOR—H.E. THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—Sir WILLIAM WOODWARD HORNELL, C.I.E., M.A. Ox.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—Sir CHARLES ADDIS, K.C.M.G., LL.D.

REGISTRAR—W B. FINNIGAN.

LIBRARIAN—Mrs. M. E. M. RING, M.Sc. Birm.

## PROFESSORS, LECTURERS, ETC.

*Accounting & Business Practice*  
Martin, T. A. Pt.-time Lectr.

*Anatomy*  
Shellshear, J. L., D.S.O., M.D.,  
Ch.M. Syd. Prof.  
Wong, R. J., M.B., Ch.M. Syd.  
Tutor.

i Demr.

*Anatomy, Morbid*  
..... Teacher.

*Biology*  
Herklots, G. A. C., Ph D. Camb.,  
B.Sc. Leeds, F.L.S. Reader.

*Chemistry* [Prof.  
Byrne, G. T., M Sc. Manc., F I C.  
Hill, R. A., M Sc. Manc., A I C.  
Lectr.  
Chan, C. L. Demr.

*Chinese*  
Au Tai Tin (Hanlin) Reader.  
Lai Hsi Chi (Hanlin) Reader.  
Wan Shuk (Hanlin) Lectr.  
Lam Tung, B.A. Translator.

*Commerce* [Lectr.  
Cooper, M. A., B.Com. Lond.

*Economics and Political Science*  
Robertson, R., M.A. Edin. Prof.

*Education*  
Forster, L., M.A. Lond. Prof.

*Engineering, Civil and Mech.*  
Smith, C. A. Middleton, M.Sc.  
Birm., M.I.M.E. Taikoo Prof.  
Fenwick, A. H., B.Sc. Lond.  
Lectr.

Morley, D. W., M.A. Camb. (Mech.  
E.) Lectr.

Redmond, F. A., B.Sc. Lond.,  
D I.C., F G.S. (Civ. E) Prof.  
Boxer, S V, B.Sc. Edin Lectr  
Tan, P. L., B.Sc. (Mech E) Demr.  
Oppenheim, L A, B.Sc. (Civ. E.)  
Demr  
Weller, F. C. Workshop Instr.

*Engineering, Electrical*  
Roffey, M. H., D.S.O., M Sc. McG.,  
M.I.E.E. Prof.  
Day, I. Demr.

*English*  
Simpson, R. K. M., M.C., M.A.  
Edin. Prof.

Lecturers and Tutors :  
Birch, B. G., M.A. Bristol.  
Hartnell, A. C. Braine, B.A. Ox.  
Clarabut, C. A. R., B.A. Camb.

*History*  
France, N. H., M.A. Camb. Reader.

*Logic and Ethics*  
Reeve, G. W., B.A. Pt.-time Lectr.

*Mathematics, Pure and Applied*  
Brown, W., M.A., B.Sc. Glas. Prof.

*Medicine and Surgery, v. infra*  
*Physics*

Faid, W., M.Sc. Durham, Prof.  
Davies, D. F., B.A. Ox. Lectr.  
Un Po, B.Sc. Demr.

*Physiology*  
Ride, L. T., M.A., M.B., B.Ch. Ox.,  
M.R.C.S., L.R.C.P., Dean,  
Fac. of Med. Prof.  
..... Asst.

**Medicine**

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

*Hygiene and Pub. Health*

Anderson, Major R. A., M.A., M.B., B.Ch., L.M., F.R.F.P.S.  
Glas., D.P.H., D.T.M. & H., R.A.M.C. Lectr

*Medical Jurispr.*

Greaves, A. V., M.B., M.R.C.P. & S. Lectr.

*Medicine*

Gerrard, W. I., O.B.E., M.D., Ch.B., M.R.C.P. Lond., D.P.H. Prof.  
Li, T. Y., M.D., B.S., D.T.M. & H. Asst.

*Obstetrics & Gynaecology*

Tottenham, R. E., B.A. Dub., M.D., Ch.B., B.A.O., F.R.C.P.I., L.M., D.P.H., F.C.O.G. Prof.

Pillai, D. K., M.D., B.S., L.M. Rotunda Asst

*Ophthalmology*

Chau, S. N., M.B., B.S., D.O.M.S. D.L.O. Lond. Lectr

*Pathology*

Davis, L. J., M.D., Ch.B. Edin. [Prof.  
Guzdar, J. S., M.B., B.S. Asst

*Pharmacology*

..... Lectr.

*Surgery*

Digby, K. H., M.B., B.S. Lond., F.R.C.S. Eng. Prof.

Hsiu, S. T., M.B., B.S. Asst.

*Surgery, Clinical*

Digby, Prof. K. H. Ho Tung Prof.

*Therapeutics*

Newton, T., M.R.C.S., L.R.C.P. [Lectr.

*Tropical Medicine*

Thomas, G. H., M.D., B.S. Lectr.

*Vaccination*

Thomas, G. H., M.D., B.S. [Teacher.

**GENERAL INFORMATION**

The Univ. was incorporated in 1911 and formally opened in 1912. For early history, see *Yearbook* for 1929. The buildings, including class-room accommodation for 500 students, six hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919-20).

The Court is composed of life, *ex-officio*, and nominated members; the Council is composed of the Chancellor, the Vice-Chancellor, the Treasurer, certain Government officials, the Chinese members of the Legislative Council, Deans of Faculty, and two representatives of the commercial community, with power for the Governor to appoint two additional members. The Senate consists of the Vice-Chancellor, the Director of Education, the Professors and Readers.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact. Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst and Mortuary.

FACULTIES. Med., Engin., Arts. There is also a School of Chinese Studies.

TERMS. Jan. 3-May 18; Sept. 11-Dec. 7.

**MATRICULATION examn.** (framed for use also as a School Leaving examn.) includes (a) English, (b) Maths, (c) Chinese Lang. and Lit., (d) Latin or a Classical Oriental Lang. other than Chinese, (e) Geog., (f) a Modern Lang. other than English or Chinese, (g) Mandarin, (h) Hist., (i) Physics, (j) Chem., (k) Higher Maths., (l) Trigonometry, (m) Mechanics, (n) Drawing, (o) Botany. (a) and (b) are compulsory for all, and (c) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med. Faculty these must include (c), (d) or (f), and (e) or (h). Medical students are registered after passing an examn. in physics, chem., and biol. subsequent to general matricn.

**DEGREES.** B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 8 (in Med.—10) terms is necessary; the 5 years' medical course dates from registration as medical student (see preceding paragraph); 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Fac. concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 3 Depts. under 6 "groups" of studies. (a) *Pure Arts and Science*: Group 1, Letters; 2, Experimental Science; 3, Social Science. (b) *Training of Teachers*: Group 4 (a), Science and Maths.; 4 (b), General. (c) *Commerce*: Group 5, Commercial Training.

**FEES** for tuition, \$400 p.a.; board and lodging, \$300; Univ. Union, \$20; books and charges for materials, etc., in Labs., about \$100. It is claimed that there is no European Univ. where a foreign student can live so cheaply.

**RESIDENCE.** All students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

## THE YEAR 1931-32

**NEW BUILDINGS.** Tang Chi Ngong School of Chinese Studies. Fung Ping Shan Chinese Library.

**NEW POSTS.** Lectr. in Geog. Addl. Lectr. in Engin.

**OTHER DEVELOPMENTS.** Formation of Hong-Kong Graduates Assocn., Jan. 1931.

**VISITS OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS.** Prof. Sir Reginald Johnston, K.C.M.G., C.B.E. (Sch. of Oriental Studies, London), and Prof. W. G. S. Adams (Oxford) visited the Univ. on behalf of the Universities China Committee, London. General Sir Arthur Currie, G.C.M.G., K.B.E., Principal, McGill Univ., also visited the Univ. Prof. A. Herre (Stanford Univ.), Prof. L. R. Jones (Univ. of Wisconsin), Dr. H. L. Lyon (in charge of Dept. of Forestry, Honolulu), and Prof. R. L. Pendleton (Forestry School, Los Banos), visited the Dept. of Biology. Dr. Herklots, Reader in Biol., visited Amoy Univ. and carried out a bryological survey of the Island of Kulangsu. He also visited the Forestry School, Los Banos, Philippine Islands, where he gave courses of lectures and made a collection of bryophyta which was sent to England for determination.

**STUDENTS.** Full-time: total, 333 (including 31 women students). Part-time: total, 13.

**DEGREES OBTAINED.** B.A., 10; B.Sc., 12; M.B., B.S., 14; M.S., 1; M.D., 1.

# MANDATED TERRITORY—PALESTINE

## THE HEBREW UNIVERSITY OF JERUSALEM

PRESIDENT—CHAIM WEIZMANN, Sc.D. Freib., D.Sc. Manc.

CHANCELLOR—JUDAH L. MAGNES, Ph.D. Heid.

TREASURER—.....

REGISTRAR—S. GINZBERG, L. ès L., Dipl. Phil. Sorbonne.

LIBRARIAN—HUGO BERGMANN, Ph.D. Prague.

### PROFESSORS, LECTURERS, ETC.

<i>Archæology and Art</i>		Kuk, S.	Jr. Asst.
Mayer, L. A., Ph.D. Vienna (Near Eastern Art and Archæol.)	Prof.	Frankenthal, L.	Jr Asst.
		Chaikin, L.	Jr Asst.
Sukenik, E. L., Ph.D. Dropsie Coll., Phila. (Jewish Archæol.)	Archæologist.	Edlitz, V., Ph.D.	Jr. Asst
<i>Bible</i>		<i>Geology</i>	
Segal, M., Rabbi, M.A. Ox. (Jewish Bible Exegesis)	Lectr.	Picard, L., Ph.D. Freib., Lond.	D.Sc. Asst.
<i>Botany</i>		<i>History (and Topography)</i>	
Warburg, O., Ph.D. Strass.	Prof.	Baer, F., Ph.D. Freib. (Med. Jewish Hist.)	Prof.
Eig, A., D.Sc. Montpellier (Systematics and Ecol.)	Custodian of the Herbarium.	Klein, S., Ph.D. Heid. (Palestine Research)	Prof.
Hareubeni, E., Ph.D. Lausanne (Biblical Botany)	Asst.	Goitein, S. D., Ph.D. Frankf. (Arabic and Moslem Hist.)	Instr.
Oppenheimer, H., Ph.D. Vienna (Plant Physiol. and Anat.)	Asst.	Tcherikover, A., Ph.D. Berl. (Gk., Roman and Hellenistic Hist.)	Instr.
Zohari, B. (Exp. Ecol.)	Jr. Asst.	<i>Hygiene and Bacteriology</i>	
Feinbrun, N., Lic.Sc. (Genetics)	Jr. Asst.	Kligler, I. J., Ph.D. Columbia	Prof.
<i>Chemistry</i>		Geiger, A., M.D. Naples (Appl. Physiol.)	Asst.
Fodor, A., Ph.D. Zur. (Biol. and Coll. Chem.)	Prof.	Olitzky, L., M.D. Berlin (Bacteriol. Serol.)	Asst.
Frankel, M., Ph.D. Vienna (Synthetic and Coll. Chem.)	Asst.	Mer, G., M.D. Naples (Malaria)	Asst.
Bobtelsky, M., Ph.D. Berne (Analyt. Chem.)	Lectr.	Ashbel, D., Ph.D. Berlin (Climatol.)	Jr. Asst.
Weizmann, M., D.Sc. Grenoble (Appl. Chem.)	Asst.	Ashner, M., Ph.D. Breslau (General Bact.)	Jr. Asst.
Reifenberg, A., Ph.D. Giessen (Appl. Coll. Chem.)	Asst.	Komaroff, R., B.Sc. Pittsb.	Jr. Asst.

Rosenberg, A., Ph.D. Zagreb	Baneth, D., Ph.D.	Asst
Jr. Asst.	<i>Physics</i>	
<i>International Law of Peace</i>	Sambursky, S., Ph.D.	Koen
Bentwick, N, M A Camb	(Physics)	Asst
<i>Literature</i>	<i>Sociology</i>	
Klausner, J., Ph.D. Heid (Mod.	Ruppin, A, Ph D. Halle (Sociol	Lectr
Hebrew Lit)	of the Jews)	
Yellin, D. (Hebrew Poetry,	<i>Talmud</i>	
Spanish Period)	Epstein, J. N, Ph D. Berne (Tal	Prof
Pflaum, H., Ph.D. Heid. (Medieval	mudic Philol.)	
Lit)	Assaf, S, Rabbi (Gaonic and	Lectr
<i>Mathematics</i>	Rabbinic Lit)	
Fracnkel, A, Ph.D Marb (Pure	Gulak, A, Dipl. Jr (Jewish	Lectr
Math) (on leave)	Jurispr.)	
Fekete, M, Ph D. Budapest (Pure	<i>Zoology</i>	
Math)	Bodenheimer, F., Ph D. Bonn	Assoc Prof
Amira, B, D.Sc. Math. Geneva	(General Zool. and Entom)	
(Pure Math)		
Levitzky, J.	Aharoni, J. (Syst Zool.)	Lectr
<i>Philology</i>	Reich, K., Ph.D. Vienna Jr	Asst
Billig, L., M.A Camb and Lond.	Ashbel, R., D.Sc. Rome (Exp	Jr. Asst
(Arabic Lit)	Biol)	
Rivlin, J., Ph.D. Frankf. (Arabic	<i>Preparatory Division in Lan-</i>	
Lang)	<i>guages</i>	
Schwabe, M., Ph D. Berl. (Classi-	Schwabe, M., Ph D. (Greek)	Lectr.
cal and Hellenistic Philol.)	Pflaum, H., Ph.D. (Latin)	Instr.
	Pflaum, H., Ph.D. (German)	Instr.
	Goitein, S.D., Ph.D (Arabic)	Instr.
<i>Philosophy</i>	Rivlin, J., Ph D. (Arabic)	Instr.
Roth, L., M.A., D.Phil Ox. (Mod.	Billig, L., M A (Syriac)	Lectr.
Philos.)	Goitein, S. D., Ph.D. (Persian)	Instr.
Bergmann, H., Ph.D. Prague		
(Arabic Philos.)		

## GENERAL INFORMATION

The University was opened on April 1, 1925, by Lord Balfour, as a group of research institutes. It is provisionally registered under the Law of Societies of Palestine. Systematic Undergraduate Instruction was begun in the Humanities in 1926 and in Mathematics in 1927. Systematic Undergraduate Instruction in Biological Sciences was begun in October 1931.

**LAND AND BUILDINGS.** The University site is located on Mount Scopus. The land held by or for the Univ. now exceeds 200 dunams (50 acres). The Univ. Buildings comprise a building for the Depts. for Biological and Colloidal Chem., Genl. Chem., Parasitol., and Hygiene and Bacteriol., the Wattenberg Building for the Institute of Mathematics, and the Monness Shapiro Building for the Institute of Physics, which is, for the present, being used for the Depts. of Botany, Zool., Geol.; the Library (Wolfssohn House), which also houses the Institute of Oriental Studies; three service buildings (offices, power house, workshop); an animal house for medical experimentation; and the Open-Air "Minnie Untermyer Memorial Theatre."



**LIBRARY (NATIONAL AND UNIVERSITY)**, over 250,000 vols. Includes the Goldzieher Collection of books and periodicals on Arabic and Oriental Lit., the mathematical library of the late Felix Klein of Göttingen, and the Jarcho Medical Library. Among its manuscripts are the original of Einstein's Theory of Relativity and the Schwadron Collection of autographs and likenesses of Jewish men and women of distinction. The Schocken Collection of Hebrew Incunabula now contains 64 out of the 103 existing Hebrew Incunabula. The recently built Wolffsohn Memorial Building has complete modern library equipment with stackroom capacity for half a million vols. The Library issues a bibliographical quarterly, *Kiryat Sefer* (Editor, I. Joel, Ph.D.).

**FACULTIES, ETC.** I. *Faculty of Humanities*: Chairman, S. Klein. II. *Division of Biological Studies*: Chairman, A. Fodor. III. *Institutes and Departments*: Institute of Jewish Studies, Chairman of the Council—Chief Rabbi Dr. Hertz, of London. School of Oriental Studies: Arabic Section (Visiting Director—Prof. G. Weil, Ph.D. Berlin, of Frankfurt). Institute of General Humanities (Philos., Hist., and Letters). Maths., Palestine Natural Hist. (Bot., Zool., Geol.). Biological and Colloidal Chem., Genl. Chem., Parasitol., Hygiene, and Bacteriol.

**DEGREES (Faculty of Humanities)**. M.A. (4 yrs.), Ph.D. (2 post-graduate yrs.) (none as yet conferred).

**SCHOLARSHIPS**: about 25; Research Fellowships: Lord Plumer, £100, in Arabic Studies.

**PUBLICATIONS**. *Yearbook (Hebrew and English)*, pubd. Sept. The Hebrew Univ. Press publishes *Tarbitz*, a Quarterly Review of the Humanities; *The Kiryat Sefer*, a Bibliographical Quarterly, and has published some books and pamphlets.

## THE YEAR 1931-32

**BENEFACTIONS**. Endowment of the Chaim Weizmann Chair for the Study of the Internat. Law of Peace; endowment by Sir Percival David, Bart., of Sassoon David Chair of Near Eastern Art and Archaeol.; establishment of Scholarship Fund by Mr. Sigmund Thau, New York, £150 annually.

**NEW BUILDINGS**. Stage of Amphitheatre (Minnie Untermeyer Memorial).

**NEW DEPARTMENTS**. School of History. School of Agriculture in preparation.

**OTHER DEVELOPMENTS**. First M.A. degrees granted in the Fac. of Humanities. Post-graduates' Dept. initiated. Entrance exams. introduced.

**VISIT OF FOREIGN UNIV. TEACHERS**. Prof. Neheles (Physiol.), Peking; Prof. L. L. Silverman (Maths.), Dartmouth Coll., U.S.A.; Prof. K. Oppenheimer (Pol. Econ.), Berlin; C. E. Winn (Maths.), Cairo; Prof. S. Brodetsky (Maths.), Leeds; Dr. George Sarton (Hist. of Sci.), Harvard; Prof. E. Speiser (Oriental Langs.), Philadelphia; Prof. Minkowski (Anat.), Zurich.

**PUBLICATIONS**. The University Press published: *The Ancient Synagogue at Beth-Alpha*, by E. L. Sukenik; *The Philosophy of Solomon Maimon*, by Hugo Bergmann.

**STUDENTS**. 190, including 9 graduates.

**DEGREES**. M.A., 13.

## APPENDICES

# I

## REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

*Regulations issued with Army Orders for January 1930 with amendment No 1, Jan. 1932, and amendment No. 2, Aug 1932, provide for Commissions being granted in the Cavalry, R A., R E., Royal Corps of Signals, Infantry Royal Tank Corps, Royal Army Service Corps (not exceeding 11 annually), Royal Corps of Signals (not exceeding 4 annually), and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Toronto; II. The other universities of Great Britain, Northern Ireland, and the Univ. of Dublin. Univs. in Group I. have established courses of military study, and their candidates will be commissioned as senior to candidates whose qualifications are in other respects equal. The grant of graduate commissions in the Indian Army is limited to candidates from univs in Great Britain, Northern Ireland, and the Univ. of Dublin. Commissions of accepted candidates will be antedated approximately 18 months according to qualifications as defined in a prescribed scale.*

Among the necessary qualifications are: to be within the age limits 21-24, and to be unmarried.

The regulations giving full details of qualifications—general, academic, military, and physical—are obtainable from the War Office.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

*Permanent Commissions in the General Duties Branch of R.A.F.* Permanent commissions in the General Duties Branch of the R.A.F. are granted to university candidates by the Air Council on the recommendation of their Universities. About 12 vacancies annually are available for candidates irrespective of the subject of their academic studies, and in addition 3 vacancies annually limited to engin. candidates who have reached the standard of an Hons. degree in that subject. Officers of the General Duties Branch are taught to fly and undertake flying, technical, and administrative duties of the R.A.F. They are given opportunities for widely differing types of study and of specialized employment.

Recommended candidates must be graduates of a University in Great Britain or Northern Ireland; must be unmarried and within the age limits 20-25. Recommended candidates are invited to attend before a selection board which sits at the Air Ministry half yearly (normally in Jan and July). Candidates from Oxford, Cambridge, or London Univs are recommended to the Air Ministry only after interview by a Board assembled at their Univ. Selected candidates are granted commissions as pilot officers as from the date on which they join a training unit, and, subject to the proviso that a commission will not be antedated

to a date earlier than an officer's 20th birthday, the commissions will be antedated so as to give seniority as pilot officers from a date 12 months prior to the date of their effective gazettement to the R.A.F. Candidates who have graduated with either first- or second-class honours may also be granted an additional antedate of 6 months regulated by age, as in the case of the general antedate. In consequence of these privileges, candidates will normally become eligible for promotion to flying officer after 6 months. Promotion to the ranks of Flight Lieutenant and Squadron Leader is by seniority modified so as to give accelerated promotion to officers who qualify for technical, staff, or other special employment, and to officers who are recommended as being exceptionally suitable. Promotion to higher ranks is by selection. Emoluments in the R.A.F. have been fixed so as to allow officers even in the lowest ranks to live on their pay.

Intending applicants should write for information to the Secretary of the Air Ministry; applicants from Oxford or Cambridge should also get into touch with the University Air Squadrons. The conditions under which commissions are granted to graduates of certain recognized Universities in the self-governing Dominions can be obtained from the Government of the appropriate Dominion.

*Medical Branch of R.A.F.* Permanent commissions are given by selection from among officers holding short service commissions as Medical Officers. So far as possible the entry of officers on short service commissions is regulated so as to give each entrant a 50 per cent. chance of a permanent commission. Short service commissions are given for 3 yrs. (extensible with the consent of the Air Council to 5 yrs.) on the recommendation of a selection board which sits at the Air Ministry. Candidates must be fully qualified medical practitioners under 28 yrs. of age. Certain advantages are given to candidates holding resident appointments in civil hospitals. Application for further information should be made in writing to: The Secretary, Air Ministry, Adastral House, Kingsway, London, W.C. 2.

## II

### ACCOUNTANTS, ACTUARIES, ETC.

#### INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C. 2.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne about the middle of May and November. It embraces: Dictation and short Engl. Composition, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian,

or Spanish), and one of the following—Advanced Maths., Physics, Chem., Geol., Stenography. Exemption is allowed to persons who have passed certain other examns., such as Oxford Responsions, Cambridge Previous, and London Matricn. Minimum age for articles is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken till 2 yrs. after passing the Intern., but graduates articled for 3 yrs. only may take it 1 yr. after Intern. No person may enter for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Book-keeping and Accountancy, including Costing and Taxation, Auditing, Partnership and Executorship Law and Accounts, Principles of Law of Bankruptcy and of Law relating to Joint Stock Companies, the Rights of Liquidators, Trustees and Receivers, Principles of Mercantile Law and of Law of Arbitrations and Awards, and as an additional subject, either Banking, Currency and Foreign Exchanges, or Economics.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive initials: A.C.A., F.C.A.

## THE SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—Incorporated Accountants' Hall, Victoria Embankment, London, W.C.2. *Telegrams*—Incorpac, Estrand, London.

*Organization. Branches:* in Scotland, Ireland, South Africa, Australia, and Canada, and 20 District Societies throughout the U.K. Students' Societies are attached to all Branches and District Societies.

*Membership.* Upwards of 5000, incl. women. Members, designated "Incorporated Accountants," are of two classes—Fellows (F.S.A.A.) and Associates (A.S.A.A.). Fellows must be either Accountants in Public Practice or Accountants to leading Public Bodies. Associates on election must be Accountants in Public Practice, Clerks to Accountants in Public Practice, or Accountants in the service of the Govt. or of Municipal Corporations.

*Articles* Articles of Clerkship for 5 yrs. (reducible to 3 yrs. for approved Univ. Graduates) are a condition precedent to sitting for the professional Examns., except in cases of candidates of mature age having 9 yrs. approved *bona fide* professional experience, who are admitted to

the Examns. without Articles upon conditions laid down in the special Bye-laws.

*Examinations and Fees.* The Examns. are three: the *Preliminary* (fee, £2:2s), to be passed before entering into Articles of Clerkship; the *Intermediate* (fee, £2:12:6), to be taken at the expiration of 2 yrs of the term of Articles; and the *Final* (fee, £3:3s), to be taken during the last yr. of Articles. Hons. Certifs., Prizes, and Medals are awarded. The Examns. are held during May and Nov. in London, Manchester, Cardiff, Leeds, Dublin, Belfast, Glasgow, Cape Town, Johannesburg, and Durban. Exemption from the Prelim. Examn. (fee, £1:11:6) obtainable upon production of certain Educational certifs.

*Publications.* *Yearbook*, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

### CHARTERED ACCOUNTANTS OF SCOTLAND

The Society of Accountants, Edinburgh	} incorpd. { 1854. by Royal { 1855. Charter { 1867.
The Institute of Accountants and Actuaries, Glasgow	
The Society of Accountants, Aberdeen	

Secretary of the General Examining Board—D. Norman Sloan, C.A., 190 West George St., Glasgow. *Telegrams*—Loan, Glasgow.

A five-year apprenticeship with a Chartered Accountant of Scotland is required (reduced to 4 for graduates of a Univ. in G.B. or Ireland). Minimum age for apprenticeship, 17 years. Fee of £10:10s. payable on registration of Indenture of Apprenticeship, to Society or Institute to which apprentice's master belongs. Persons desirous of serving an apprenticeship must pass an examn. in Engl., Matls., a language other than English; and a 4th subject, of the standard of the Scottish Entrance Board's examns., or the equivalent (graduates of a Univ. in G.B. or Ireland exempted). The Intermed. Examn. must be taken in 2 divisions during the period of apprenticeship, fee 1 guinea each division, comprising Arith.; Algebra and Statistics; Book-keeping and Accounting must be passed during the last 3 years of apprenticeship. The Final examn. must be taken in two divisions, the 2nd being taken after the expiry of the apprenticeship. Fees, 1 g. and 2½ gs. Certain courses must be taken at one or other of the local univs. before the apprentice presents himself for either of the two divisions. This examn. embraces appropriate Scottish Law, Book-keeping and Accounting, Insolvency, Trust, Income Tax, Cost, and other Accounts. The examns. are held in May and Dec. Distinctive initials: "C.A." Detailed syllabus to be had from Sec.

### THE INSTITUTE OF COST AND WORKS ACCOUNTANTS

Incorporated 1919. *Address*—6 Duke St., St. James's, London, S.W.1.

Among the objects are: (1) To improve the professional status of Cost Accountants, and by means of examns. to test the skill and know-

ledge of persons desiring to enter the profession, and to issue qualify certs. ; (2) To improve the facilities at present available to persons entering the profession for acquiring the necessary training and education ; (3) To exercise professional supervision over the members of the Inst., and to frame and establish rules for the observance in all matters pertaining to professional practice ; (4) To hold conferences and meetings for the discussion of professional subjects, and to collect, collate and publish information of service or interest to members of the profession.

*Membership* of the Inst. by examn. is granted to candidates who have passed (a) the Preliminary, (b) the Intermediate, (c) the Final Examn. and have had at least 3 yrs' practical costing experience. Exemption from the Preliminary may be granted to graduates of any Univ. in the U.K. and to persons who have passed certain recognized School examinations.

*Examination Fees* : Preliminary, 1 guinea ; Intermediate, 1½ g. Final, 2 gs. *Membership Fees* : Associates, 5 gs., Entrance, 2 gs. annually ; Fellows, 7 gs., Entrance, 3 gs. annually.

Distinctive initials A.C.W.A., F.C.W.A.

## THE INSTITUTE OF COMPANY ACCOUNTANTS

Incorporated 1929. *Address*—Holborn Chambers, Broad St. Birmingham.

Examinations qualifying for membership, Prelim. (fee 1 g.), term (fee 2 gs.), Final (fee 3 gs.) are held in London and various provincial centres in May and Nov. The Prelim. Examn. includes Engl. Grammar and Composition, Arith., English Hist. or Geog., Maths Algebra and Geom., and one of Latin, French, Sci., Econ. or Spanish. The following certs. are accepted in lieu of the Prelim. Examn. : (1) A Matricn. Certif. of any British Univ. (2) A School Certif. issued by one of the following bodies provided that a Pass "with credit" has been obtained in Maths : Oxford and Camb. Schools Examn. Bd., Oxford Delegacy for Local Examns., Camb. Local Examns. Syndicate, Univ. of London (Genl. School Examn.), Jt. Matricn. Bd. of the North (English) Univs., Bristol and Durham Univs., Central Welsh Bd. Intern. Edn. (3) Scottish Edn. Dept. School Leaving Certif. provided that a "pass" has been obtained in Maths.

With the permission of the Institute Registered Students may, and are strongly recommended to attend Univ. courses usually in the Faculty of Commerce for some subjects of the Intern. and Final Examns. to pass in the internal examn. of the Univ. in those subjects will exempt from the Institute's examns. in the same subjects, subject to satisfactory report concerning students from the Univ. authorities.

Members are of two grades, Fellows (F.I.A.C.) and Associates (A.I.A.C.). Both use the designation "Company Accountant (Inc.)." Certifs. of membership are issued.

Annual subscriptions : Fellows, 4 gs., Associates, 3 gs.

*Publication.* *The Company Accountant.*

## INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address*—Staple Inn Hall, Holborn, London, W.C.1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 21 days' notice. Applications for examn. outside the U.K. must reach the Hon. Secretaries 2 months before the date of examn.

Candidates for *Studentship* must have passed: (1) a preliminary examn.; (2) Part I. of the Institute's own Examn. Syllabus (Advanced Algebra, Probability, Finite Differences and Elementary Calculus).

Candidates for *Associateship* must be "Students" and have passed Parts I, II., and III. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 2 gs. for each Part. Distinctive initials: A.I.A., F.I.A.

## FACULTY OF ACTUARIES IN SCOTLAND

Incorporated by Royal Charter, 1868. *Address*—14 Queen St., Edinburgh

Examinations (4 in number, Pts. I A and B, fee 1 g each, II., III., and IV., fee 1½ gs) are held annually in London, Aberdeen, Birmingham, Edinburgh, Glasgow, Manchester, Norwich, Melbourne, Sydney, Cape Town, Johannesburg; at present Pt. I. Section A is held half-yearly in Oct. and April.

Any person desirous of prosecuting his studies in connexion with the Faculty may be enrolled as a student, subject to the Council's approval, on the recommendation of two Fellows, and must furnish evidence that he has passed the Leaving Certif. Examn. of the Scottish Edn. Dept. on the Higher Grade Standard, or the Prelim. or Entrance or Matricn. Examn. of a Univ. approved by the Council, or such other evidence of general edn. as may be accepted by the Council.

Any person holding the Diploma in Actuarial Maths. of Edinburgh Univ. (obtained since Jan. 1, 1924) shall be exempted from Pts. I. and II. Any student who has graduated in Math. Hons. at any Univ. approved by the Council may, in its discretion, be exempted from Pt. I.

*Fees*. Entrance, 2 gs.; Fellows, 2-3 gs.; Associates, 1 g.; Students, 10s. 6d.

## THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address*—11 Queen St., London, E.C.4. Membership consists of the members of Local Insurance Insts., of which there are 39 in the U.K. There are also 10 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, Johannesburg, Hobart, Launceston, and Montreal. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in March. Journal published annually.



## III

## INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1.

Regional Groups have been founded in Birmingham, Manchester, Edinburgh, Liverpool, Leeds, Nottingham (East Midlands), Sheffield, Newcastle, Glasgow, Hull, Pretoria (S. Africa), Adelaide (S. Australia), Melbourne (Victoria), and Burma (India); and are in course of formation at Bristol, East Anglia, Cardiff, and Belfast. Monthly lectures are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Univs. of Birmingham, Manchester, Liverpool, Leeds, Sheffield, Glasgow, and London. A Conference is held every summer at either Oxford or Cambridge, and one every winter usually in London. Subscription—Members, 2 gs.; Associate Members, 25s.; Associates,  $\frac{1}{2}$  g. per annum. The journal, *Public Administration*, is published quarterly by the Institute (*annual subs.* 12s. 6d. post free), and a members' monthly circular (*Monthly Notes*).

## IV

## AGRICULTURE, DAIRYING, HORTICULTURE, Etc.

## NATIONAL AGRICULTURAL EXAMINATION BOARD

The Board was appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (8 Eglinton Crescent, Edinburgh).

An examn. in the *Science and Practice of Agriculture* is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission: a certificate from a recognized Agr. College that his attainments in General Bot. and Chem., Geol., Physics, and Mechanics justify the candidate's admission; or evidence of (a) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ.; or (b) having passed the Oxford or Cambridge School Certificate examn., with evidence of having continued study of science for at least a yr., and a certif. in Elem. Chem. and Physics and Bot. of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn.; or (c) Higher

Leaving Certif, including Chem. and Bot, of the Scottish Ed. Dept. Before the first three written papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr.; Farm Machinery and Implements; Land Surveying and Farm Buildings; Agr. Chem, Bot, Book-keeping and Zool; Vet. Sc. They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder the next yr. *Fee* (non-returnable) for entire examn., 6 gs.

### NATIONAL DAIRY EXAMINATION BOARD

The Board consists of representatives of the Royal Agricultural Society of England, the Highland and Agricultural Society of Scotland, and the British Dairy Farmers' Association. *Address*: 16 Bedford Square, London, W.C.1.

An examn. in the *Science and Practice of Dairying* is held annually in England and Scotland for the Nat. Dipl. in Dairying (N.D.D.).

Qualifications for admission: (a) a Diploma course in the subjects of the examn. covering two academic yrs., including at least 6 session months' instruction in practical dairy work at an approved dairy training institution; also (b) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (a)). The examn. includes tests of practical skill in Dairying and of the candidate's knowledge.

The examns. are held in England and in Scotland. A candidate may not enter for the examns. in both countries.

*Examn. papers of past years* (6d. a set) and a detailed syllabus of subjects of examn. are obtainable from the Secretary.

### HORTICULTURE

The examns. for the National Diploma (N.D. Hort.) were established in 1912 by the ROYAL HORTICULTURAL SOCIETY, Vincent Square, London, S.W.1. They are usually held in May and June in London and elsewhere. The *Preliminary* examn. is open to candidates who have received a sufficient general education, who are at least 21 yrs. of age and have served at least 4 yrs. in a public or private garden or nursery, or taken a 4 yrs.' course in an approved Horticultural Institution, or spent 4 yrs. partly in the former and partly in the latter. The *Final* examn. is open to candidates who have passed the preliminary examn. and have been regularly employed in the practice of Horticulture for at least 6 years. Other examns. held by the Society every yr. are the Genl. Examn. in Horticulture (for Junrs. and Senrs.), and the Teachers' Examn. in School and Cottage Gardening (Prelim. and Advanced).

Fuller particulars and entry forms from The Secretary, Royal Horticultural Society, Vincent Square, London, S.W.1.

## NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., the Dept. of Agr. for Northern Ireland, Leeds Univ., S.E. Agr. College (Wye), Harper Adams Agr. College, Reading Univ., School of Agr., Cambridge, Midland Agr. Coll., Lancashire Co. Farm Inst., Swanley Hort. Coll., and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., late Principal of Harper Adams Agr. College, Newport, Salop. It holds exams annually, and awards a National Diploma in Poultry Husbandry (N.D.P.) and a National Certificate in Poultry Practice, which is intended to serve the needs of the smaller instns.

Qualifications for admission to the Diploma exams. (fee, 5 gs.): i. Passing the Board's Prelim. examn (fee, 2 gs.) in Elem. Chem., Physics, Biol., and Maths., or producing other satisfactory evidence, *e.g.* Matriculation certificate, of knowledge of the above-mentioned sciences; ii. Training in Poultry Husbandry in a recognized Teaching Instn. for at least a year; iii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. are Poultry Husbandry in all branches and, in so far as they relate to this, Agr. and Horticulture, Anat., Physiol., Pathol., Chem. and Physics, Building and Appliance Construction, Book-keeping. Next examn. Sept. 1933. In the new Regns. for the Diploma the Institutional Trng. has been extended to 2 yrs and the first examn. under this extended syllabus will be held in Sept. 1934. The prelim. examn. has been done away with in this connexion. Candidates who take their exams. under the present syllabus will be allowed to complete them under it.

Applications receivable by the Secy., National Poultry Council, Sentinel House, Southampton Row, London, W.C.1.

## V

## ROYAL INSTITUTE OF BRITISH ARCHITECTS

## BOARD OF ARCHITECTURAL EDUCATION

Founded 1834. Incorporated by Royal Charter in 1837. *Address*—9 Conduit St., London, W.1. *Telegrams*—Ribazo, Piccy, London.

The Recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

*Registration as Probationer, R.I.B.A.* (fee, 4 gs.). Candidates must produce evidence of good general education. This evidence, except in very special cases, must be (a) a certif. from one of the Schools of Archit. recognized for exemption from the R.I.B.A. examns., to the effect that the applicant has passed, or has received exemption from the School Entrance Examn., or (b) a certif. of having passed one of the examns. recognized by the R.I.B.A. for the Probationership. All applicants must submit drawings showing that they possess some knowledge of Drawing, except (a) when the applicant submits a certif. of having passed or received exemption from the Entrance Examn. to one of the Recognized Schools of Archit., or (b) when the applicant submits a certif. of having passed one of the recognized public examns. with credit in Drawing or Art. Candidates who are unable to submit certifs. of general education in accordance with the regns. may make special applications, which will be considered on their merits by the Board of Architectural Education. A list of the Recognized Schools of Archit. is given in the following paragraphs, and particulars regarding them are given in the "Explanatory Pamphlet," see below.

The *Intermediate* examn. (fee, 5 gs.) is held in May or June and Nov., and is open to Probationers of at least 19 yrs. of age. It tests their progress while engaged as pupil, improver, or asst. in an office, and passing it qualifies for election as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted to Probationers who have attended the necessary courses at one of the following schools: Architectural Assocn., London; Northern Polytechnic, London; The Polytechnic, Regent St., London; Birmingham School of Arch.; Armstrong Coll. (Newcastle); Leeds Coll. of Art; The Technical Coll., Cardiff; Royal West of England Academy, Bristol; The Leicester Coll. of Arts and Crafts; The Municipal School of Art, Nottingham; The Municipal School of Arts and Crafts, Southend-on-Sea; Robert Gordon's Coll., Aberdeen; Edinburgh Coll. of Art; Glasgow Sch. of Arch.; Univs. (in U.K.) of Cambridge, Liverpool, London, Manchester, Sheffield, Dublin; Univs. (Overseas) McGill, Manitoba, Toronto, Sydney, Auckland Univ. Coll., Cape Town, Witwatersrand; Bombay School of Art. The R.I.B.A. desires that Students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee, 6 gs.) for the *Associateship*, R.I.B.A., is held in July and Dec., and is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board. Exemption from the Final examn. is given to Students who have completed successfully a Dip. or Degree course covering at least 5 yrs. at the Arch. Assn. London, Birmingham School of Arch., Leeds Coll. of Art, Liverpool Univ., London Univ., Manchester Univ., Robert Gordon's Colleges, Aberdeen, Glasgow Sch. of Arch., Edinburgh Coll. of Art, Technical Coll., Cardiff; Univs.: McGill, Toronto, Sydney, Cape Town, Witwatersrand, Auckland Univ. Coll.

A *Special* examn. (fee, 10 gs.) for the Associateship is held in July and Dec. It is open to Architects in practice and Assts. not less than

30 yrs. of age whose applcns. are approved by the Board, and exempts from the Prelim. and Interm. examns and from submitting testimonials of study.

Admission to the *Licentiate* Class has recently been re-opened. Candidates for election to this Class must have attained the age of 30 yrs., and either (a) have been engaged as principals for at least 5 successive yrs. in the practice of Arch., or (b) have been engaged for at least 10 successive yrs. in the practice or the study of Arch.

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns. (fee, 3 gs) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held periodically.

In July 1931 the Architects (Registration) Act, 1931, was passed, establishing the Architects Registration Council of the United Kingdom, the duty of which is to set up and maintain a register of architects entitled to be registered under the Act, with power to remove the names of all registered persons who apply for removal, and the names of all those who shall have died. Only persons so registered will be entitled to use the name, title, or style of "Registered Architect." Under the Act a Board of Architectural Education and an Admission Committee are appointed annually by the Council, both constituted in accordance with Schedules to the Act. The Council also have power to remove the name of any registered person convicted of a criminal offence, or, on the report of a special committee appointed for the purpose, to remove the name of any "person . . . guilty of conduct disgraceful to him in his capacity as an architect."

*Allied Societies* and branches thereof exist in 54 towns in the U.K., in Montreal, Edmonton (Alta.), Toronto (Ont.), Regina (Sask.), Vancouver (B.C.), Winnipeg (Man.), Moncton (N.B.), Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth, Wellington (N.Z.), Cape Town, Salisbury, Bloemfontein, Durban, Johannesburg, Nairobi, Singapore, Bombay, and Rangoon.

The Royal Institute of British Architects offers a number of Prizes and Studentships, particulars published annually in the *R.I.B.A. Prizes and Studentships Pamphlet*, price 1s. See also p. 780, *infra*.

*Publications* include the *Kalendar*, 3s. 9d., containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each. *Explanatory Pamphlet on Examns.*, 1s. and postage. *Past Examns. Questions.* price 1s. and postage.

## VI

THE AUCTIONEERS' AND ESTATE AGENTS'  
INSTITUTE OF THE UNITED KINGDOM

Founded 1886. *Address*—29 Lincoln's Inn Fields, London, W.C.2

The Preliminary Examn (Jan and June) and the Interm. and Final Examns. (March) are held in London, Birmingham, Bristol, Cardiff, Manchester, Newcastle-upon-Tyne, Belfast (except Prelim Examn in June which is held in London only).

The Preliminary (fee, 1½ gs) is for the grade of *Student Member*, the Intermediate (fee, 3 gs.) for the grade of *Licentiate*, and Final (fee, 4 gs.), or the Direct Final (fee, 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English, Arith., Algebra, Geometry, Mod. English Hist., and one only of the following *optional subjects*, French, Latin, German, Modern Geog., Gen. Knowledge. Exempting examns.: Matricn or School Certif Examns of Univs. in the U.K., Prelim. of Law Soc., Chartered Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs., and the Senr. Certif. Examn of the Coll. of Preceptors.

The *Intermediate* is open to clerks articled for 3 yrs., ordinary assistants who have had at least 3 yrs'. professional experience and certain others. Minimum age, 19. The subjects are Book-keeping, Plans and Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, Building Construction, and 1 out of 4 other subjects. *This examination is open only to those who have passed or been exempted from the Institute's Preliminary Examn* unless the candidate is 25 years of age or over, when he is exempt from the Prelim but is required to take the 2 additional subjects of English and Arithmetic at the Interm. Examn.

The *Final* is open to persons who have passed or been exempted from the Interm.; the Direct Final, to persons not less than 30 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuations, Law of Vendor and Purchaser, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, Specifications and Estimates for Repairs to Buildings, and one out of a list of 6 other subjects. The Direct Final, in addition to the 9 subjects of the Ordinary Final Examn., includes also the following from the Interm. list: Bookkeeping, Plans and Mensuration, and Law of Landlord and Tenant.

*Exemptions.* A candidate who has passed the Interm. Examn. for the B.Sc. (Estate Management), Univ. of London, will be exempted from certain subjects in the Interm. Examn. If he has passed the Final of the B.Sc. Examn. (Est. Management), or holds the B.A. degree in Estate Management of Cambridge Univ. or the B.A. degree in Agric., together with the Dip. in Rural Econ. of Oxford Univ., he will be

exempted from the Interim. and Final Examns. of the Institute entirely. The holder of any other degree of a recognized British Univ. is exempted from the Interim. entirely, but is required to take the *whole* of the ordinary Final Examn.

Minimum age for admission to Student Member grade, 16; Licentiate grade, 19; Associate grade, 21; Fellow, 25. Candidates must also fulfil specified conditions as to practical experience.

*Publications*: Regns. and Syllabus and particulars of Prizes and *Scholarships* (value up to £50 p a. for 3 yrs.), post free. Last Examn. Questions, Preliminary Examn., 1s.; Professional Examns., 2s.

## THE COLLEGE OF ESTATE MANAGEMENT

Incorporated by Royal Charter. *Address*—35 Lincoln's Inn Fields, London, W.C 2.

Instruction—daytime, evening, and by postal tuition—in preparation for the examns. of the Univ. of London (B.Sc. degree), the Surveyors' Instn., the Auctioneers' and Estate Agents' Institute, and the Land Agents' Society. Principal, B. W. Adkin, F.S.I., F.A.I., F.E.S., M.R.A.S.E., Barr.-at-Law. Directors of studies in Urban and in Rural Science and 30 other Lectrs. and Instrs. A Travelling Scholarship, maximum value £300 for 1 yr., is offered by the College, *see* Appendix XXIII. 3.

## THE LAND AGENTS' SOCIETY

Incorporated by Royal Charter. *Address*—12 Little College Street, London, S.W 1.

Qualifications for (1) Fellowship: Having passed the Society's examns. and being a genuine manager of a certain acreage and having been professionally employed for at least 5 yrs. (The Council have special dispensing powers to elect as Fellows, without examn., Land Agents of exceptional standing and experience.) (2) Qualified Associateship: Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil paying a premium. (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

(Agents, sub-agents, and assistants who may be eligible from the practice point of view for Fellowship and Qualified Associateship, except that they have not passed the Society's examns., may be elected to Associateship on giving an undertaking to pass those examns. within stipulated periods.)

Examinations annually in March. Entries up to Dec. 1. Scottish candidates are examined in Edinburgh. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and Charges on Land, Building Constn., etc., Forestry, Book-keeping. Part II. is of an advanced character to test practical knowledge. Candidates 35 years of age and over, with seven years' responsible experience, are permitted to sit for Part II. as a Direct Fellowship Examination. Syllabus and previous Examn. Papers may be obtained from Secretary.

*Journal*, published monthly, 2s. 6d. to non-members.

## VII

## THE INSTITUTE OF BANKERS

Founded 1879. *Address*—5 Bishopsgate, E.C.2. Local centres in Bath, Bedford, Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cambridge, Cardiff, Channel Islands, Chatham, Chester, Cornwall, Derby, Eastbourne, E. Kent, Exeter, Gloucester, Grimsby, Hull, Ipswich, Leeds, Leicester, Lincoln, Liverpool, Middlesbrough, Mid-Lancs., Newcastle-on-Tyne, Northampton, N. Staffs, N. Wales (2 Centres), Norwich, Nottingham, Oxford, Peterborough, Plymouth, Portsmouth, Reading, Richmond and Kingston, Sheffield, Southampton, Southend, Swansea, Yeovil, York. Subscription,  $\frac{1}{2}$  g. to 2 gs. p.a.

Qualifications for election to Associateship: (a) 10 yrs.' service in a Banking Establishment, or (b) passing approved examns., or (c) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, "Cert. A.I.B."

*Examinations*, open to members only, (i.) For the Associate Certificate, held in April in London, the provinces, and abroad. Latest entry date—Feb. 15.\* Subjects: Practice and Law of Banking, Economics, Engl. Compn., Comml. Geog., Foreign Exchange, Book-keeping and Accountancy; optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over a period of not less than 3 yrs., Pt. II. to be taken not less than 1 yr. from Pt. I. No Member may enter for the Associate Examination unless he has either passed a Qualifying Examination or obtained exemption on account of passing one of the recognized "First Examinations," or passed the Bank Common Entrance Examn., or on account of his age and length of bank service. Examns. *exempting* from Part I. in Practice and Law,—examns. for B.Com. of Bombay or Lucknow with Banking as special subject; in Econs.,—examn. by Prof. Knoop at Univ. of Sheffield. Certain certificates obtainable in London, Birmingham, Bradford, Cardiff, Exeter, Hull, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, Scotland, and Ireland are also recognized. (ii.) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns.

Courses of *Lectures* in Banking and kindred subjects are given during the winter in London and some provincial towns. *Library* (lending), 7000 vols. *Journal*, monthly, Oct. to June, 1s. 6d. (15s. p.a., post free). *Examn. Questions*, 6d. each yearly set. The Examn. Syllabus may be obtained on application to the Secretary.

\* For members outside Europe: January 31.



## VIII

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN  
AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library*, 4500 vols. *Laboratories*, available for exams by other institutions. *Appointments Registers* of Fellows, Associates, Registered Students, and Lab. Assts.

*Studentship*. Minimum age, 16. Annual subs., 10s. A candidate must have passed an approved examn of matricn. standard and must be undergoing a course of preparation and training for the practice of Chemistry in a teaching institution recognized by the Council, or as a pupil of a Fellow of the Institute in a lab. or works approved by the Council.

The institutions recognized for training candidates for the examns. of the I.C. are the following connected with the Univ. of London—University Coll., King's Coll., Imperial Coll., Birkbeck Coll., Bedford Coll., Royal Holloway Coll., East London Coll., Battersea Polytech., Northern Polytech., Sir John Cass Tech. Inst. (evg.), Chelsea Polytech., West Ham Munic. Coll.; Armstrong Coll., Newcastle, and Durham laboratories; Constituent Colls. of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls., Exeter, Hull, Leicester, Nottingham, Southampton; Belfast, Dublin, Univ. Coll. (N.U.I.), Birmingham Cent. Tech. Coll., Blackburn Munic. Tech. School, Bradford City Tech. Coll., Derby Tech. Coll., Huddersfield Tech. Coll., Hull Tech. Coll., Leeds Tech. Coll., Liverpool Cent. Tech. Coll., Loughborough Tech. Coll., Manchester Tech. Coll., Newcastle-on-Tyne, Portsmouth Munic. Coll., Rutherford Tech. Coll., Salford Royal Tech. Inst., Wigan Mining and Tech. Coll., Cardiff Tech. Coll., R. Tech. Coll. Glasgow, Heriot-Watt Coll., Edn., Paisley Tech. Coll.; Overseas Univs.—McGill, Queen's (Ontario), Toronto, Adel., Melb., Syd., W. Aust., N.Z., Cape Town, South Africa. Coll. Sc. Transvaal, Stellenbosch.

The compulsory subjects of training are Chem., Physics, Maths., and one other optional Science subject, the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other examns. is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee, 5 gs., occupies 6 days, including 4 days of practical Chem., and is open to students who (i.) have completed the prescribed training, or (ii.) have obtained a degree including the necessary subjects, and worked for a further yr. in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or (iii.) have been otherwise trained to the satisfaction of the Council and been

engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. Applications from candidates having diplomas of Dominion or foreign Univs., or of a specialized character, will be decided on their merits. Entrance fee, 2 gs. Annual subsn., 1½ gs.

Associates must be registered as such for 3 yrs. before election to the F.I.C. The F.I.C. examn. fee for Associates, 5 gs., occupies at least 5 days in any one of the following branches: Inorganic, Physical, Organic, Bio-Chemistry, Agricultural, Foods and Drugs and Water, Industrial Chem., with special reference to particular industries. In exceptional cases other candidates who have been systematically trained and have had considerable experience may be examined for F.I.C., fee, 10 gs. The F.I.C. may also in exceptional circumstances be granted without examn. to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, Non-Assocs., 5 gs., Assocs., 3 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of National Certificates in Chem. to students in technical schs. and colls. in England and Wales (Rules 100, 1921, 2d). The Institute in conjunction with the Board approves schemes of training submitted by the technical schs. or colls., for the award of certifs. for part-time grouped courses, including in addition to chem. suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. There is a similar scheme in Scotland, in conjunction with the Scottish Education Dept., and a scheme has been arranged with the Ministry of Education, Northern Ireland. Holders of Part-time Certifs. can ascertain from the Registrar of the Institute how far their training qualifies for admission to the examn. for the Associateship.

*Pedler Research Scholarship*, open to Fellows and Associates of the Institute, £300 a year, for at least 12 mos. The Scholar, who may not hold any other Scholarship or Bursary without the knowledge and consent of the Council, must work on a problem suggested by the Council which needs investigation in the public interest. Awarded as funds permit. Particulars from the Registrar of the Institute.

*Publications.* *Register of Members*; *Regns. for Admission*; *Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 7th edition, 1931, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Procdgs.*, 6 parts annually, 2s. each; *History of Inst.*, 21s.; *The Profession of Chemistry*, 2s. 6d.; *Lectures* (monographs on various industries—branches of chemical practice, etc.) at various prices.

## CHEMICAL SOCIETY

*Address*—Burlington House, London, W.1. Professional qualification not required. Entrance by ballot, annual subs., £3. Monthly Journal and Abstracts. Annual Reports on the progress of Chemistry. Research Fund from which grants are made (to the amount of about £700 p a.) for purchase of special materials and apparatus for research. See p. 797.

## IX

## THE INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address*—Great George St., Westminster, S W.1. *Telegrams*—Institution, London.

Examinations, (i.) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31. The April and Oct examns. may also be held in Manchester, Glasgow, Newcastle-upon-Tyne, and Dublin. (i) and (ii.) may under certain conditions be held in the King's Dominions overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions as to practical training have to be fulfilled. It includes English, Maths., and one language and one science subject from the following: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Hindustani, Russian, Chinese, Japanese.

Admission to (ii.) is open to (a) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (b) persons of at least 25 yrs. of age who have passed or are exempt from (i.) and are in other respects (training, experience, etc.) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, *either* Theory of Structures *or* Theory of Machines; (B) 2 out of 9 other subjects; and (C) Engin. Drawings, Specifications, and Quantities.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, to Whitworth Scholars and, subject to provisos, to persons who have passed certain school and matriculation examns. in Gt. Britain and Ireland, Canada (McGill Univ.), Australia, Tasmania, New Zealand, and S. Africa. Ex-

emption from sections (A) and (B) of (ii.) is granted for the following degrees if taken after 3 yrs.' study in the several Univs in accordance with their regns. : Oxford B.A. with Hons in Eng. Sc. Final Hons. Sch. ; Camb. B A. Hons. Mech. Sc. Trip. or Ord. degree (B.A.) in Eng., provided the graduate has passed in the principal subjects, Eng. I, II., and III. ; B.Sc. in Eng. (Hons. or Ord.) of Edin., St. Andrews, Aberdeen, Glas. ; Civil or Mech. or Elect. Eng. or in Naval Arch. (Hons. or Ord.) ; Belf., S. Africa (until 1921), Cape Town, and Witwatersrand in " Civil " or " Mech. and Elec." ; B.A.I. of Dublin, Ord., or with Hons. in Eng. ; B.E. Nat. Univ., Ireland ; and, subject in some cases to certain qualifications, Eng. degrees of all the other Univs. of E. and W. and of McGill, Queen's (Kingston, Ont.), Toronto, Adel., Melb., Queensland, W. Australia, Syd., Tas., and N.Z. There is no exemption from Section (C).

Members and Associate members are entitled to the designation *Chartered Civil Engineer*.

*Publications.* *Report on Methods of Educn. and Training of all Classes of Engrs.*, 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d. ; *Report of Confce. on Educn. and Training*, June 1911 ; Papers and Reports on Technical Subjects.

## THE INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter, 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—Voltampere, Phone, London.

Examinations are held in London and other centres in Great Britain, in May and November, of candidates for Graduateship. Applications should reach the Secy. not later than Apr. 1 and Oct. 1 respectively. Examns. may also be held abroad in Nov. Part I. includes English ; Applied Mechanics, Elec. Technology ; and either Heat, Light, and Sound or Chem. Part II. consists of papers on technical subjects.

A candidate for Associate Membership is required to possess an approved educational qualification, or to pass the grad examn. or in approved cases to present a satisfactory thesis, paper, or other written work on Elect. Eng. or its applications. He must also be at least 26 years of age, and must be engaged in one of the branches of Elect. Eng., and satisfy the Council as to his experience, etc.

An Engineering Degree of any Univ. in the British Empire approved for the purpose is recognized, subject to certain provisos, as an approved educational qualification. Certain diplomas in electrical engineering are likewise recognized.

*National Certificates and Diplomas* are awarded by the Institution jointly with the Board of Education or the Scottish Edn. Dept. on lines similar to those for Mech. Engineers ; v. *infra*.

The following scholarships are awarded annually by the Council :

*Duddell Scholarship.* £150 p.a., tenable for 3 yrs. Each candidate must be nominated not later than June 15 by a Corporate Member of the Instn., and preference will be given to candidates whose fathers or a near relative are, or have been, members of the Instn. Open to

British subjects under 19 yrs. of age on July 1, who have matriculated or passed an examn. exempting from Matricn., and who wish to take up a whole-time day course in Elect. Eng.

*Ferranti Scholarship.* £250 p.a., tenable for 2 yrs. Each candidate must be nominated not later than Aug. 15 by the Professor or Teacher under whom he is working or has worked, and preference will be given to candidates whose fathers are, or have been, members of the Instn. Open to British subjects under 26 yrs. of age on July 1 who are Students or Graduates of the Instn., of not less than two yrs.' standing, and have completed to the satisfaction of the Council a recognized elect. eng. course of at least three yrs., and who desire to carry out whole-time research or post-graduate work.

*Swan Memorial Scholarship.* £120 p.a. tenable for 1 yr. Each candidate must be nominated not later than Aug. 15 by the Prof. or teacher under whom he is working or has worked. Preference given to candidates either (a) born in the Co. Borough of Sunderland, or (b) resident in that Borough for a minimum of 7 yrs., or (c) educated at Sunderland Tech. Coll. Open to British subjects under 27 yrs. of age on July 1 who have completed to the satisfaction of the Council a recognized elect. eng. course of at least 3 yrs. and who desire to carry out whole-time research or post-grad. work.

*Silvanus Thompson Scholarship*, for works employees. £100 p.a. and tuition fees, tenable for 2 yrs. Each candidate must be nominated not later than June 15 by a Corporate Member of the Instn., and must be the son of parents of limited means. Open to British subjects under 22 yrs. of age on July 1, who desire to take up a whole-time day course in Elect. Eng. and who (a) have served a minimum apprenticeship (or its equivalent) of 3 yrs. at an approved Elect. Eng. works, and (b) in addition to having taken full advantage of available opportunities for tech. education, have acquired a marked degree of skill, and/or shown evidence of originality.

Applications (specifically mentioning the name of the Scholarship) for particulars and Nomination Forms should be addressed to the Secretary.

## THE INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. Address—Storey's Gate, St. James's Park, London, S.W.1. Telegrams—Mech. Parl., London.

Examinations are held in London and at provincial centres in April and Oct., and at overseas centres in Oct.: (i.) *Studentship* Examn. (minimum age, 16), including papers in General Knowledge (English, Hist., Geog.), Elem. Maths., Elem. Mechanics, and either Physics or Chem. (ii.) The *Associate Membership* Examn., including—Section A: Modern Lang., App. Maths., Physics and Chem.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject; also Section C: The Economics of Engineering.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed Sections A and B of examn. (ii.), and have received

or be receiving sufficient regular training as a mechanical engineer to fit him for employment as such Minimum age, 21.

A candidate for election as *Associate Member* must be at least 25 yrs. of age. The passing of the A.M. or equivalent examn. is indispensable up to the age of 33, and he must also have been regularly trained and have had sufficient practical experience in Mech. Engineering.

Examns. exempting from (i) a degree of any recognized Univ. in the British Empire; matriculation and School Certificate Examns. of various Univs and other examining bodies in Gt. Britain and Ireland; certain examns. of matricn. standard held in South Africa, Australia, New Zealand, and Hong-Kong; certain other examns.

Examns. exempting from Section A and Section B of examn. (ii): Eng. degrees of any Univ. in Gt. Britain, Ireland, or British Dominions, except such as may be specifically excluded, Eng. degree of a foreign Univ. if recognized by the Council; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London; Certif. in Technol., Mech. or Elect. Engin., Manchester Univ.; Final Dipl. in Mech. or El. E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning 'course, R.N. examn. qualifying as Lieut. (E.); R.N. College Prof. Certif. for Constructors, Inst. C.E., Assoc. M. examn., provided certain subjects are passed; Whitworth Scholps. and Exhibns.

*National Certificates and Diplomas* are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schs. and Colls. (v. Board of Education, Rules 106, rd.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching, within the limits of the subjects covered, the standard of University work. Full-time courses are also classified as *Senior* (for Secondary Sch. students aged 16) and *Advanced* (for Secondary Sch. students aged 17 or 18, or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The Senr. Full-time and Advanced Pt.-time courses must extend over at least 2 yrs., and the Advanced Full-time and Senr. Pt.-time courses should normally extend over 3. The Certif. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher*. The *Ordinary* Certif. and Diplomas exempt candidates from certain subjects of the Studentship Examination, and the *Higher* Certif. and Diplomas from certain subjects of the Associate Membership examn. Special conditions apply to holders of both the *Ordinary* and *Higher* awards.

INSTITUTION OF MINING ENGINEERS, see p. 727

## ROYAL AERONAUTICAL SOCIETY

(with which is incorporated The Institution of Aeronautical Engineers)

Founded 1866. Address—7 Albemarle St., London, W.1.

Membership may be either technical (Students, Associates, Associate Members, Associate Fellows, Members, and Fellows) or non-technical

(Companions). *Associate Fellowship* (A.F.R.Ae S.) is reserved for those who have certain attainments in the science or practice or teaching of aeronautics or its allied sciences and have passed the Associate Fellowship Examination or an exempting examination; *Associate Membership* (A.M.I.Ae E) is reserved for those who have certain attainments in the practice of aeronautics or its allied subjects and have passed the Associate Membership Examination or an exempting examination, *Membership* (M.I.Ae E) for those who have attained considerable eminence and are qualified as Associate Members; *Fellowship* (F.R.Ae S.) for those who have attained to considerable eminence, and are qualified as Associate Fellows. Annual subsn., 1 g., 2 gs., 3 gs., and 4 gs., according to class. Entrance for Associates and Companions, 1 g.; for Associate Fellows and Associate Members, 2 gs.; for Fellows and Members, 3 gs. Library, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the National Central Library, 9 Galen Place, W.C.1. *Lectures*, regularly in winter. *Publication*: *Journal* (monthly).

## THE INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907. *Address*—Watergate House, York Buildings, Adelphi, W.C.2. *Telegrams*—Autinst, Rand, London.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 33; having occupied during a sufficient period a responsible position in connexion with the practice, or otherwise proved thorough knowledge of theory and practice, of Automobile Engineering; (2) Associate Membership (A.M.I.A.E.): min. age, 25; having been trained as Engineer and subsequently employed for at least 2 yrs in practice and science of A.E. and being actually so engaged, and having proved by examn. or otherwise thorough knowledge of the theory and practice of A.E. Persons suitably qualified may also join as graduates, students, associates, or affiliates. Annual subsn., 1 g. to 4 gs., according to class. Prizes up to £25 for Papers by Graduates.

## THE INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—Abbey House, Victoria Street, London, S.W.1. *Telegrams*—Inchemengs, Sowest, London.

*Membership* (M.I.Chem.E) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of students, graduates, and corporate members range from  $\frac{1}{2}$  g. to 5 gs.

## THE INSTITUTION OF GAS ENGINEERS

Founded 1863. Royal Charter 1929. *Address*—28 Grosvenor Gardens, London, S.W.1. Secretary: J. R. W. Alexander, M.A., LL.B., F.I.Arb. *Telegrams*—Gasophaner, Sowest, London.

There are Major Courses for internal Students at Technical Colls. and for external Students not so studying, for the award—in co-operation with the Board of Education—of Ordinary Grade and Higher Grade Certifs. and the Diploma in Gas Engineering and Gas Supply. The Higher Grade Certif. in Gas Engin. or the Diploma are amongst the qualifications required for admittance to Corporate Membership of the Instn. There are Minor Courses in Gas Works Practice, Gas Supply Practice, and Gas Fitting.

The Livesey Professorship in the Dept of Coal Gas and Fuel Industries is endowed at Leeds Univ., where the following awards are made by the Instn.: Instn. Gas Research Fellowship, Corbet Woodall Scholarship and William Cartwright Holmes Scholarship. The Charles Hunt Memorial Medals in the Diploma Exams are amongst the Medals awarded by the Instn.

*Publications* *Transactions*, annually; *Communications*, May and Oct.; *By-Laws*; *Education Regulations*.

## INSTITUTE OF MARINE ENGINEERS

Established 1889. Incorporated 1889. *Address*—85 The Minories, London, E.C.3. *Telegrams*—Gradation Ald., London.

There are 5 classes of members, viz.: (i.) Members, (ii.) Companions, (iii.) Associate members, (iv.) Associates, (v.) Students, who being under 25 have completed at least 1 yr's attendance at day or evening classes as part of a regular course in Engin. or Naval Archit. at an approved ednl. instn and have attained the examn. standard prescribed by the Inst. The examn. is held in London and the provinces in April; subjects: Mechanics, Heat and Heat Engines, Machine Constrn. and Drawing, Maths., Eng., Elec. Engin., Pract. Engin.

Entrance fee, 10s. to 30s., and annual subsn., 5s. to £1:11:6, according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures monthly (usually on 2nd Tuesday) during winter session. Gold Medal and other awards for Essay competitions.

Further information from the Secretary.

## INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter, 1910. *Address*—2 Adam Street, Adelphi Terrace, London, W.C.2. *Telegrams*—Sinai, Rand, London.

Principal qualifications for Membership: minimum age, 30; having served apprenticeship in naval arch. or marine eng. and subsequently



been engaged in such occupation and having held a post of primary responsibility for 7 yrs. or more. Qualifications for Associate-Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates, 25; Students, 18-25 Entrance fee and annual subsn., 2 gs each, except for students, who pay subsn. 15s. p.a. and no entrance fee. Distinctive letters, M.I.N.A., etc

*Scholarships* in naval arch. and marine eng.: number unspecified, varying in value from £75 to £150 p.a., offered for competition, open to students and apprentices in firms engaged in shipbuilding industry and Royal dockyards; two for post-grad. research in naval arch. (value £250 p.a. and £150 p.a. respectively) are awarded on recommendation of Univ. authorities (*see* Appendix XXIII. 12).

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols, comprising principal works on shipbuilding, ancient and modern. *Transactions*, issued annually, a permanent record for over 70 yrs. of all important developments in shipbuilding and marine eng.: £3 : 3s. for current vol. (free to members); £3 : 3s. to 10s. 6d. for earlier numbers. Membership 2800, including many foreign naval architects of eminence.

## NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated in 1914 under Companies Acts.  
*Address*—Bolbec Hall, Newcastle-on-Tyne.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (*v. supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough*.

A *Scholarship* in shipbuilding, marine, mech., or elect. eng., value £100, is awarded annually on results of an examn. in Sept.

*The George Mitchell Harroway Scholarship*, value £100 p.a. for 3 yrs., is offered triennially. Next award 1933. The scholar must attend a full-time day course in naval architecture or in marine eng. at a recognized Coll. or Tech. School in Gt. Britain with a view to taking a degree in naval arch. or eng. He must also spend some portion of the summer vacation in a shipyard or engineering works. Open only to candidates born in the borough of Blyth, Northumberland, or in the county borough of Middlesbrough, Yorks, of not less than 17 or more than 20 yrs. of age on Oct. 1 following date of application. Further particulars and forms of application obtainable from the Secretary of the Institution.

*The Thomas Fenwick Reed Gold Medal*, awarded to a member under 30 who shows most successfully evidence of ability to take a share in the control of industry, is offered annually for competition.

Library, over 5000 books on eng. and shipbuilding. Reading Room

with 130 British, foreign, and colonial periodicals. *Transactions*, 8 Pts. since 1884, 5s each. Ann. vol., 25s. Papers pubd. also in excerpt form, usually 2s. 6d. each, with discussion, correspondence, and author's reply.

## INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—39 Elmbank Crescent, Glasgow, C.2.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Instn. of Naval Architects (*v. supra*). Distinctive letters, M I E.S., etc. The Instn reciprocates with the N.E. Coast Instn. of Eng. and Shipb., Inst of Marine Eng. and Liv. Eng. Soc. in regard to the use of premises and attendance at meetings. It publishes *Transactions*.

## THE INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—84 Eccleston Square, London, S.W.1. A Constituent Institution of the Joint Engineering Council.

Qualifications for Membership (M.Inst.M. and Cy.E.): minimum age, 25; holding either a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or a permanent appointment as Deputy Engineer or Surveyor or the like; and having passed the examn. of the Instn. or obtained equivalent Degree or Dipl., and in the case of deputies, etc., testimony of professional ability and experience justifying election.

Qualifications for Associate Membership (A.M.Inst.M. and Cy.E.): minimum age, 22; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineer Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or satisfied the Council that he has equivalent engineering qualifications.

A candidate for election as Student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articulated pupil to, or hold an approved appointment with, an Engineer or Surveyor to a Public Authority.

Qualifications for Associates: not being Municipal or County Engineer by profession, but engaged in branches of science allied to municipal or county engineering.

Entrance fee for Member, 1½ gs., and Assoc. Member and Associate, £1 : 5s.; subsn., 2 gs., 1½ gs. Student's subsn., 1 g.

Examinations: April and Oct. Applications receivable up to Nov. 1 and May 1. Four certifs. are awarded: (a) Testamur for general proficiency in work of a local govt. engineer and surveyor; (b) certif.

in Town Planning; (c) certif. in County and Highway Eng. for specialized knowledge of road and bridge eng. and highway management and administration; (d) diploma in Administration.

Qualifications for admission to the exams.: minimum age, 21; cert. of matricn. of some Univ. in the British Empire or an examn. of similar standard approved by the Council; fees—(a) 10s 6d. per Part (six Parts), (b) or (c) 1½ or 3 gs.

Inquiries about examns. in England, India, and S. Africa may be addressed to the Secretary.

*Publications*: *Journal*, fortnightly, 2 gs. p.a.; *Town Planning Conference 1913*, 10s. 6d.; Handbook containing lists of Members, Regns., etc., 5s.; and several others.

## THE INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908, incorporated 1909. *Address*—10 Upper Belgrave Street, London, S.W.1. *Telegrams*—Coninst, Sloane, London. Branches (7): Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties, South-Western, S. Wales, and Scottish.

*Studentship* qualifications: age 18-21; should have passed matricn. or an equivalent examn. and should be *bona fide* students of Structural Engin. *Graduateship*: age 21-25, must pass Instn. Examn. or hold exempting qualification. *Associate Membership*: age 25 and upwards; must pass Instn. Examn. or hold special exempting qualifications and 10 yrs.' practical experience. *Associateship*: for members of kindred professions, interested in Struct. Engin., who are of equal professional standing to Members. *Membership*: age 30 and upwards, with minimum of 5 yrs. as Principal or active professional Partner in a Firm carrying out Struct. Engin. work. Distinctive initials of members, etc., M.I Struct E, etc.

Examinations held annually in July and Dec., in London, provinces, and overseas at approved centres; entries received up to May 1 and Oct. 1. Graduateship Examn. includes papers on Principles of Statics and Theory of Structures (Elem.), Strength and Elasticity of Materials, and 3 of 5 selective subjects: Chem., Phys., Hydraulics, Geol., Surveying. Associate-Membership Examn. includes papers on Theory and Design of Structures (Advanced), either Reinforced Concrete or Structural Steelwork, and Practical Design.

*Scholarships*—Competitions for travelling scholarships, value £300 and medals, held from time to time.

*Publications*: *The Structural Engineer*, monthly, 1s. 2d. post free; *Yearbook and List of Members*, 5s. 4d. post free; numerous books and reports on technical subjects.

## THE INSTITUTION OF WATER ENGINEERS

Established 1896. *Address*—Parliament Mansions, Victoria Street, Westminster, London, S.W.1.

Entrance fee, 3 gs., 2 gs., 1½ gs., according to class; annual subsn.,

Members and Professional Associates, 3 gs., Associate Members, 2 gs. Associates, 1½ gs., Students, 1 g. Meetings held in May or June and Dec.

*Publication: Transactions*, issued to members only; for sale in certain cases at 1 guinea.

## SOCIETY OF ENGINEERS (INCORPORATED)

Established 1854; Civil and Mechanical Engineers' Society, founded 1859. Incorporated 1910. *Address*—17 Victoria Street, Westminster, London, S.W. 1. *Telegrams*—Windolite, Sowest, London

Qualifications for membership: *Associates* (A.S.E.): (i) men of scientific attainments who, while not professional engineers, are engaged in professions allied to engineering; (ii) Engineers under 21 yrs of age; (iii.) Engineering pupils above 18 yrs. of age at time of their application for election. *Associate Members* (A.M.S.E.)—Regularly trained engineers not less than 21 yrs. of age professionally engaged as such at time of appln. for election. *Members* (M.S.E.)—Regularly trained engineers not less than 25 yrs. of age and responsibly engaged in the profession for at least 5 yrs. prior to appln. for election. *Fellows* (F.S.E.)—Engineers not less than 30 yrs of age with adequate scientific edn. and engin. training who have occupied, and still occupy, responsible positions involving design or execution of important engin. works, and have passed the Society's exams., or approved exempting exams. Women are eligible for membership on same terms as above.

Entrance fee: Fellows, 3 gs. Subsn (Town, Country, and Foreign), 3 gs., 2½ gs., and 2 gs. respectively; Members, 2½ gs.; Subsn. (Town, Country, and Foreign), 2½ gs., 2 gs., and 1½ gs. respectively; Associate Members and Associates over 21 yrs., entrance fee and subsn. each 1½ gs.; Associates under 21 yrs., entrance fee and subsn. each ros. 6d.

Ordinary meetings held from Oct. to May (Jan. excepted). Visits to work of engin. interest arranged during vacation.

*Publications: Journal*, quarterly, 3s. 6d., free to members. *Transactions*, yearly 17s. 6d.

## THE INSTITUTE OF TRANSPORT

Founded 1919. Incorporated by Royal Charter 1926. *Address*—15 Savoy Street, Victoria Embankment, London, W.C.2. *Telegrams*—Transitute, Rand, London.

Principal objects—to promote, encourage, and co-ordinate the study and advancement of the science and art of transport in all its branches.

Corporate Members (M.Inst.T.) and Associate Members (A.M.Inst.T.) are persons elected as such by the Council, who are not less than 30 and 25 yrs. of age respectively. Non-Corporate Members are Associates (Assoc. Inst. T.); Graduates (Grad. Inst. T.) persons not under 21 yrs.; Students (Stud. Inst. T.) persons not under 17 yrs.

*Examinations.* Exams. are held annually in London and at such other centres (home and overseas) as the Council may from time to time

establish. Unless otherwise determined, they will commence on the last Thursday in April. The Council at its discretion may also hold the exams. in Nov. of any year commencing on the last Thursday.

Applicants for admission to the Graduateship or Assoc. Membership Examn. must complete and submit the form of application to the Sec. not later than March 1 in respect of examn. in April following and Sept. 1 in respect of exams which may be held in Nov. following

*Examn. Fees.* Graduateship Examn., 2 gs.; Assoc. Membership Examn., 3 gs.

A candidate for Studentship of the Inst. shall be deemed to have passed a Qualifying Examn. who produces evidence of having passed one of the following exams.:

Graduateship of any British Univ. The Matricn. Examn. or Entrance Examn. of any recognized British Univ. The Higher School Certif. Examn., and School Certif. Examn. of any recognized Brit Univ. The Higher Certif. Examn., and School Certif. Examn. of the Ox. and Camb. Schools Examn. Bd. The Senr. Examn. of the Coll. of Preceptors. The School Certif. and Higher Certif. of the Central Welsh Bd. Leaving Certif. and Day School Certif. (Higher) of the Scottish Edn. Dept. Leaving Certif. Examn. of the Dept. of Edn., Irish Free State. General School Examn. of London Univ. *The preliminary examn. of any of the following:* Instn. of Civil, Mech., Electrical Engineers; Surveyors' Instn.; Instn. of Municipal and County Engineers; Inst. of Chartered Accountants; Society of Incorporated Accountants and Auditors; and the Chartered Inst. of Secretaries.

*Entrance Fee.* Members and Associates, 3 gs., Assoc. Members, 2 gs., Graduates, 1 g. Annual subsns.: Gt. Brit. or Ireland, amounts as above; outside, 1½ gs., 1 g., and 10s. 6d. respectively. Students, Gt. Brit. or Ireland, 1 g., outside, 10s. 6d. A member of any class elected on and after March 1 in any yr. pays half the ann. subsn.

Meetings (Oct. to April) and Conferences are held, and lectures given.

Local Sections and Overseas Centres are set up on request, at discretion of the Council.

Premiums (gold and silver medals) are awarded, and in addition a Premium, presented by *Modern Transport*, is available for a paper by a Graduate or Student.

In co-operation with certain of the Univs., and other educational instns., courses of instruction on transport subjects have been provided.

Further particulars on appln. to the Secretary.

## X

## THE BAR IN ENGLAND AND WALES

The right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows: *Admission of Students*. The conditions include: (i.) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Educn., which entitles to a degree, or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii.) satisfactory evidence of good character; (iii.) declaration that the candidate is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those . . . otherwise than as . . ." The Schedule of approved Prelim. examns. includes those of the standing of Oxford Responsions, Cambridge Previous, and London Matriculation. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement, and solicitors admitted in England are exempted from it.

*Keeping Terms.* This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

*Education and Examination.* Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Three examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Elements of the Law of Contract and of the Law of Tort, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7, (9) Real Property and Conveyancing or Hindu and Mohammedan Law or Roman-Dutch Law. A student who has passed an examination in Roman Law, forming part of a qualifying examn. for a Univ. degree, may be excused the examn. in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee,  $\frac{1}{2}$  g. each); 5 to 9 (the Final examn.) must be taken together (fee, 2 gs.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in

Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certif. of Honour is granted to those in Class I. at the Final examn. Prizes of £50 each may be awarded for the best students (age not over 25) in Sections (2) and (3), and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (age not over 25) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any terms, not exceeding 2, that may remain to be kept by him.

*Calls to the Bar.* Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examns., etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils or Advocates who have been on the Roll of Vakils or Advocates of a High Court in India for not less than 3 yrs., certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England*.

*Fees.* On admission: application, 1 g.; stamp duty, £25; lecture fee, 12 gs.; admission fees, £20 or £21. On Call: stamp duty, £50; composition for annual dues, £12; call fees, £38 (Gray's), £40 (Lincoln's), £50 (Middle or Inner Temple).

## SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examn. at or near the conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1932) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn. or other corresponding examns. of any Univ. of Great Britain or Ireland or examns. exempting therefrom; to Utter Barristers in England; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns.

*Service under Articles* (stamp duty, £80) is normally for 5 yrs. This may be reduced to 3 yrs. for graduates in Arts or Laws or Sc. of

any Univ. of the U.K., English Barristers, of less than 5 yrs.' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at any of the Univs. of England (except Bristol) and Wales or at the Univ. of Dublin or the Queen's Univ. of Belfast; or (ii.) before entering into Articles have taken Hons. in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge.

The *Final* examn. (fee, 10 gs) is held in March, June, and Nov. Prints of the Questions set at this and at the Preliminary and Interm. are obtainable from the Law Society.

THE SOLICITORS ACT, 1932. Section 32 provides that a person articled to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies the Law Society that he has, during a period of 1 yr., complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ. in the U.K., after passing a Final Examn. in law at such Univ.; or (2) applies to be admitted to the Law Society's Final Examn. after satisfying the requirements of Sect. 32 (1) (c) (ii.) of the Solrs. Act, 1932. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy the Law Society that such attendance is for geographical or other reasons impracticable.

*Provided and Approved Schools.* The Society's Law School in London; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester), Univ. College, Hull, and the Sussex Board of Legal Studies.

## SCOTLAND

### ADVOCATES

Full information as to admission to the Faculty of Advocates, Scotland, can be obtained on application to the Clerk of Intrants, Advocates' Library, Edinburgh.

The Faculty Examns. proceed upon a remit from the Court, following upon a Petition presented by the Intrant. In the event of the candidate not possessing a degree in Arts, he must either satisfy the Dean and his Council that he has passed an examn. evidencing the same amount of



scholarship as that afforded by the degree of Master of Arts of a Scottish Univ., or pass the Faculty examn. in General Scholarship. A knowledge of Scots Law and Conveyancing is essential, and the candidate must have attended classes in these subjects in a Scottish or other approved Univ. The other legal subjects include Civil (Roman) Law, Philosophy of Law and International Law, Constitutional Law and History, and Medical Jurisprudence. The degree of LL.B. of a Scottish Univ., provided it has been obtained after examn. in all the prescribed subjects, exempts from examn. in General Scholarship and Law.

The fees payable on admission vary according to the age of the Intransit and other circumstances.

### LAW AGENTS

The generic name for solicitors in Scotland is "Law Agent," a term synonymous with "Solicitor" in England. The title "Procurator" is also sometimes used. In Edinburgh, where the Court of Session sits, the term "Advocate" is equivalent to "Barrister," though in other parts of Scotland the Solicitor or Law Agent may be referred to by that title. In Edinburgh, again, Law Agents or Solicitors may be members of the Society of Writers to the Signet or of the Society of Solicitors in the Supreme Courts. The former generally use the designation "W.S.," the latter "S.S.C.," after their names, but any solicitor can practise without being a member of either Society provided that he has passed as a "Law Agent."

For information regarding the Scottish Law Agents Society, application should be made to the Secretary, Scottish Law Agents Society, Dunblane.

### WRITERS TO HIS MAJESTY'S SIGNET

The principal class of solicitors in Scotland are called Writers to the Signet, from their having been originally clerks in the office of the King's Secretary. The method of entering the Society of Writers to His Majesty's Signet is by way of Indenture, the period being either 5 or 3 yrs. according to the age and qualifications of the applicant. The fees payable on entering into Indenture are £345 : 1s., together with other minor charges. Two examns. have to be passed, the first directed both to the theory and to the practice of Law. Upon expiry of the term of apprenticeship and after discharge of the Indenture the Intransit has to pass a second examn. in legal subjects. Applicants who hold degrees in Law of any Scottish University are exempted from all examinations provided that the Law of Scotland, Conveyancing, and Civil and Criminal Procedure are included in the subjects in which he has passed for the Degree. The fees payable by Intransits for admission amount to £137 : 17s. For further information application should be made to the Sub-Keeper and Clerk of the Society of Writers to His Majesty's Signet, 15 York Place, Edinburgh.

### SOLICITORS

Before apprenticeship, an entrance examn. in General Knowledge must be passed ; or the applicant must have been exempted therefrom

by reason of holding qualifications such as those that would admit him to a Univ. He must also pass an examn. in Book-keeping and Accounting. The examn. in Law is divided into two parts: the first being taken not sooner than 2 yrs. before the date of the expiry of the candidate's Indenture. The second examn. in Law can be taken only after the applicant has Petitioned for admission as a Law Agent and his Petition has been remitted by the Court to the Examiners. The subjects of this examn. are Conveyancing, the Law of Trusts and Succession, and Court of Session and Sheriff Practice. Apprenticeship must be for 5 yrs., but under certain conditions it is reduced to 3 yrs. The duty for admission to practise before a Sheriff Court is £55, and before the Court of Session £85. Various other fees have to be paid in the course of apprenticeship and for the examns.

### THE BAR OF NORTHERN IRELAND

Admission to the Bar of N. Ireland is controlled by the Honourable Society of the Inn of Court of Northern Ireland, Law Courts, Belfast. The course covers a period of 3 yrs. commencing with Michaelmas Term. A student must have passed a Univ. Matricn. Examn. (incl. Latin). He must keep 3 Terms Commons in one of the 4 Inns of Court in London. Except where expressly provided otherwise he shall attend each yr. a continuous and complete course of lectures at the Queen's Univ., Belfast, and shall pass the examns. connected therewith. In his 2nd or 3rd yr. he may attend the lectures of the Profs. of the Inns of Court in London instead of one of the yrs. at the Queen's Univ. A student of an approved Univ. in Gt. Britain and Ireland may be given credit for his first yr.'s legal education by attending a complete course for 1 yr. in the Univ. Law School. Before presenting his Memorial for Call he must pass Sections I.-IV inclusive, of Pt. II (The Final Examn.) for Call to the Bar held under the Council of Legal Education in England. No student shall be called to the Bar of N. Ireland unless he shall possess an Arts degree or some other Univ. degree which, in the opinion of the Benchers, is equivalent thereto.

*Fees.* Before admission as student, 1 guinea for Form of Memorial. Before presentation of Mem., Stamp duty £25, and fee of £25 to the Inn. Univ. Lectures, 15 gs. p.a. Before admission to degree of Barr.-at-Law, Memorial stamp duty £50, fee to Inn £50. On admission, 1 guinea for Certificate of Admission.

### SOLICITORS IN THE IRISH FREE STATE

With the exception of candidates who have passed certain Univ. and school examns., all intending apprentices are required to pass a prelim. examn. (held in April and Oct. in each yr.) before being bound under indentures, the course for which is published 1 yr. in advance. Candidates, who must have attained the age of 16, must lodge with the Secretary of the Society, *at least* 3 wks. before the appointed day of the

examn., a notice, petition, and memorial, together with baptismal certif. and fee of £10. Intending apprentices who were under the age of 15 on Oct. 1, 1929, must obtain a certif. from the Inc. Law Society of Ireland that he or she has passed a first examn. in Irish, and such apprentices must pass a second examn. in Irish within 1 yr. before being admitted. The period of service under indentures varies from 3 to 5 yrs., the reduction being made for graduates of certain Univs.

Apprentices other than those who have been barristers in Ireland must attend two years' lectures by professors of the Society in Common Law, Equity, Real Property Law, and Conveyancing. Fees, 6 gs.

The Intermediate Examn., held in June and Oct., must be taken by all apprentices other than graduates in Laws of Irish and certain British Univs.

The Final Examn., held in April and Oct., fee £10, must be taken by all candidates before admission as a solicitor. Admission is not granted to candidates under 21 yrs. of age. Fees, £25 stamp duty, and 5 gs. payable to the Society.

Further particulars from the Secretary, Incorporated Law Society, Solicitors' Buildings, Four Courts, Dublin, N.W.8.

# XI

## MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

### A. MEDICAL QUALIFICATIONS

*Address of the Registrar, General Medical Council*—44 Hallam St., Portland Place, London, W 1. *Telegrams*—Genmedicum, Eusroad, London. *Addresses of Registrars of Branch Councils*—12 Queen St., Edinburgh, 2 ; 35 Dawson St., Dublin.

No person is recognized by law as a legally qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

*Position of Doctors with Irish Qualifications.* Persons who obtain recognized qualifications in the Irish Free State can register there, and should do so if they desire to practise in that State. They are also entitled to registration on the Medical Register if they desire to practise elsewhere than in the Free State.

*Position of Doctors with British Qualifications in Irish Free State.* Persons on the British Medical Register can register and practise in the Irish Free State on payment of the requisite fee of £5 *plus* 1s. for stamp.

#### (a)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.  
 Royal College of Surgeons of England—F., M., R.C.S. Eng.  
 Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.  
 Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.  
 Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glasg.  
 Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.  
 Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.  
 Apothecaries' Soc. of London—L.M.S.S.A. Lond.  
 Apothecaries' Hall, Dublin—L.A.H. Dub.  
 Each Univ. in Great Britain or Ireland—M.D. (Ox., D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.) or Ch.M. (Orth.) L'pool ; Dub. : L.Med., L.Ch. ; M.A.O. (Dub., N.U.I., Q.U. Belf.).

Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine, which may be added to qualifications already registered, but do not admit primarily to the Register: D.P.H. (R.C.P.S. Engl., R.C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).

B.Sc. (P.H.) Birm.

B.Hy., D.Hy. Durh.

M.D. (Br 5, S.M.) Lond.

M.H. L'pool.

B.Sc. (P.H.), D.Sc. (P.H.) Edin.; B.Sc. (P.H.), D.Sc. (P.H.) Glas.

The period between the obtaining of an original qualification and a Diploma is not less than 2 years.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc., Public Health, or State Med.

(b)

*Australia.* M.B., M.D. Syd., Adel., or Melb.; Ch.M., B.S. Syd.; B.S., M.S. Adel.; B.S. Melb.

*Canada.* M.D. Alberta; M.D. C.M. Dal.; M.D., or M.D. C.M. Man.; L.M.S. Nova Scotia Provl. Med. Board, or Prince Edward Island Med. Council.

M.C.P. & S. Alta., or Man.

*Ceylon.* L.M.S. Ceylon Med. Coll.

*Hong-Kong.* M.B., B.S., M.D., M.S. Hong-Kong.

*India.* The following qualifications granted before Feb. 24, 1930:

M.B., B.S. All.

L.M.S., M.B., B.S., M.D., M.S. Bom.

L.M.S., M.B., M.D., M.S., M.O. Calc. (if dated prior to Nov. 30, 1924, or between May 12, 1928, and Feb. 24, 1930).

M.B., C.M., M.B., B.S., M.D. Mad.

L.M.S., M.B., M.D., M.S. Panj.

M.B., B.S. Lucknow.

All Indian qualifications granted since Feb. 24, 1930, have ceased to be registrable.

*Malta.* M.D. Malta.

*Newfoundland.* L.M.S. Nfld. Med. Board.

*New Zealand.* M.B., Ch.B., Ch.M., M.D. N.Z.

*South Africa.*

M.B., Ch.B. Cape Town.

M.B., Ch.B., M.D., Ch.M. S. Africa.

M.B., B.Ch., M.D., Ch.M., U. Witwatersrand.

*Straits Settlements.* L.M.S. Singapore Med. Coll.

(c)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs.; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural

Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

## B. REGISTRATION OF MEDICAL STUDENTS

The General Medical Council recommend that every medical student at the commencement of his studies should be registered. A memorandum on the procedure to be adopted, with a list of Hospital Fees, etc., may be obtained from the Registrar, 44 Hallam St, London, W.1., price 1s. Students desiring to be registered should apply in the prescribed form, obtainable from any of the Registrars (*v. supra*), submitting evidence of having—(a) attained the age of 17; (b) passed a Preliminary examn. in General Education recognized by the Council; (c) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies; (d) commenced Medical study at an approved Univ. or Medical School.

As regards (b) the Council recognizes no examn. which is of standard lower than that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires in the case of School Certificates which do not exempt from Matricn that the examn certificate shall bear evidence that the candidate has passed *with credit* at not more than two sittings in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regns. of the particular examn., to be chosen from the subjoined list, viz. Hist, Geog., Physical Sc., Nat. Sc., Botany, Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from recognized Dominion or Colonial Univs must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or Coll. from which they come, or an examn. accepted as equivalent thereto, and that the examn. passed is accepted by one of the Univs. of Gt. Britain or Ireland for similar purposes. Applicants from recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Prelim. Sci. or Interm. examn. in Arts or Sc. of their own Univ. in the four subjects specified above. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (c), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (b) examn., but an applicant from recognized Dominion or Colonial Univs. or Colls. is permitted to substitute for it a certificate that an examn. in *Physics* and *Chem.* (and, in addition, *Biology*, *v. infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Prelim. Scientific or Intermediate examn. in Arts or Sc. of his own Univ. will suffice if these subjects are included in his Pass certificate *in addition* to the four subjects required under (b), *supra*.

As regards (d), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire

of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

Not all the licensing bodies require students to be registered by the General Medical Council.

### C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered can practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams*—Dentiboard, Eusroad, London.

The following lists show the registrable qualifications obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas.

#### (a)

Royal College of Surgeons of England—L.D.S., R.C.S. Eng.

Royal College of Surgeons of Edinburgh—H.D.D., L.D.S., R.C.S. Edin

Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S., R.F.P.S. Glas.

Royal College of Surgeons in Ireland—L.D.S., R.C.S. Irel.

Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm

Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.

Univ. of Durham—M.D.S., B.D.S., L.D.S. U. Durh

Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.

Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. L'pool.

Univ. of London—B.D.S., M.S. (Dent.) U. Lond.

Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U. Manc.

Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.

Univ. of St. Andrews—L.D.S. U. St. And.

Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc. U. Dubl.

National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.

Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

#### (b)

Victoria, Australia—L.D.S. Vict.

Univ. of New Zealand—B.D.S. U. N. Zealand.

Univ. of Adelaide—B.D.S., D.D.Sc., U. Adelaide.\*

Univ. of Sydney—B.D.S. U. Sydney.

\* Admissible only in the cases of persons who have complied with the Regulations which came into force in 1928.

Univ of Melbourne—B.D.Sc., D.D.Sc. U. Melb.

Univ. of Witwatersrand, B.D.S., D.D.S. U. Witwatersrand.

#### D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Office of the General Medical Council in London in the same manner as that of Med students, and is subject to the same regns as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

III. Two years' or more *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of at least 2 yrs.' regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Prelim. and Sci. examns, he may be allowed to antedate by not more than 1 yr. the passing of these examns.

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School.

*Schools at which Dental Study may be commenced:* Birmingham D. Hospl; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl.; Manchester D. Hospl.; Newcastle-upon-Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

Not all the licensing bodies require students to be registered by the General Medical Council.

#### E. RECIPROCAL RECOGNITION

All the States, Presidencies, Provinces, and Colonies in which the registrable medical qualifications specified under A (b), (c) are granted allow practitioners with qualifications registered in the U.K. to register without further examn. There are other Colonies, e.g. Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.



[A Report (9th edition pubd. in 1931) as to the conditions under which Med. and Dent. practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s. 6d. (post free U.K. 2s. 9d., elsewhere in the Empire 3s., outside 3s. 3d.). It contains, among other matters, the designations and addresses of the officials to whom application should be made for forms and further information.]

## F. POST-GRADUATE MEDICAL STUDIES

In London, in addition to the General Hospital Medical Schools which provide to a limited extent for qualified practitioners, there are the West London Post-Graduate College at the West London Hospital, Hammersmith, with a staff of 37 regular lectrs. and demrs., the North-East London Post-Graduate College at the Prince of Wales' Hospital, Tottenham, and the London School of Clinical Medicine at the Seamen's Hospital, Greenwich, as well as certain special hospitals where excellent arrangements are made for post-graduate work in particular subjects. The *Fellowship of Medicine and Post-Graduate Medical Assn.* (1 Wimpole St., London, W.1), formed in 1918, promotes and advertises the provision of facilities for post-grad. med. study in London. In co-operation with 50 London general and special hospitals, post-grad. courses in all the special depts. of med. science are arranged, as well as short intensive courses at regular intervals during the year, including special evening courses for the M.R.C.P. and F.R.C.S. (Final) examns. and personal tuition by a Panel of teachers. Information is given on post-grad. study in Gt. Britain and elsewhere. Regarding facilities for special research, v. *infra*.

Post-graduate courses are also provided elsewhere, notably at Manchester, Edinburgh, and Glasgow.

## ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

*Address of the Secy., Examining Board in England, 8-11 Queen Sq., London, W.C.1.* Applications for admission to the Board's examns. should reach the Secy. at least 21 days beforehand. Agency for the sale of Books of Questions set in past years (9d. each, post free 10d.; for 1928 and subsequent years, 1s., post free 1s. 1d.)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4.

Examns. for the Diplomas of LICENCE OF THE R.C.P. of London and MEMBER OF THE R.C.S. of England (L.R.C.P., M.R.C.S.) are held ordinarily in Jan., April, July, and Oct. Candidates must have passed a Prelim. examn. in genl. edn. recognized by the Board, and must have passed, before commencing the 5 years' curriculum of professional study, Part I of the *Pre-Medical examn. in Chemistry and Physics* conducted or recognized by the Board. Part II. of the *Pre-Medical Examn. (Elementary Biol.)* must be passed not later than the completion of the

second term of Professional Study. Before admission to the Professional examns. (known as the *First* and *Final*) they are required to produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn. (fee, 10 gs.) comprises : Section I., (a) Anat., including Histol. and Embryol., (b) Physiol., including Bio-Chem. ; Section II., Pharmacol. and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted by a Univ. recognized by the Board will be exempted from further examn. in such subject or subjects. The subjects of the *Final* Professional Examn. are : Section I. (fee, 4 gs.), Pathol. (including Morbid Anat., Morbid Histol., Clinical Path.), and Bacteriol. ; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health ; Part II. (fee, 10 gs.), Surgery, including Surg. Anat. and the use of Surg. Appliances ; Part III. (fee, 6 gs.), Midwifery and Gynæcol.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn., may enter for a Part, or Parts, of the Final at the expiration of 24 months after passing in Anat. and Physiol., but cannot complete until 57 months of professional study, including 33 months clinical work, have been completed after the date of passing in Anat. and Physiol. on production of the required certificates.

Members of certain recognized Indian, Dominion, Colonial, and Foreign Univs. are admissible to the examns. under special conditions, particulars of which are set out in the Regns. of the Board. The Board also grants Diplomas in Public Health, in Psychological Med. in Ophthalmic Med. and Surg., in Tropical Med. and Hyg., in Laryngol. and Otol., in Gynæcol. and Obstetrics and in Med. Radiol. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, a Dominion, Colonial, or Foreign Univ.

Most of the Universities in the U.K., except Oxford and Camb., admit students who have not matriculated but have satisfied the Con-joint Board requirements to study for the L.R.C.P., M.R.C.S.

For admission to the MEMBERSHIP OF THE R.C.P. (fee, 40 gs., less Licence fee, if any, already paid) the minimum age is 23, and a candidate must satisfy the Censors Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If he has not passed the examns. required for the licence, he must have obtained a Univ. degree of Doctor or Bachelor of Med. which is registrable by the General Medical Council of the United Kingdom. A candidate who has attained the age of 30, and can produce testimonials satisfactory to the Board, may submit published work done by himself in any branch of Medical Science or in General Literature, and if the Censors Board decide that such work is of sufficient merit to excuse the candidate the whole or part of the usual Examn. the Board may modify the Examn. as they think fit.

FELLOWS are elected annually from the ranks of the Members of at least 4 yrs.' standing. (For particulars of the Membership of the R.C.P.

application must be made direct to the Secretary, Pall Mall East, London, S.W. 1)

Exams for the FELLOWSHIP OF THE R.C.S. are held twice yearly—the 1st Prof. in June and Dec., and the 2nd Prof. in May and Nov. Fees, first examn., 8 gs., 2nd, 12 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are M.R.C.S. Eng. and 30 gs. for those who are not M.R.C.S. The *First* examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 60 weeks, to (a) candidates who have passed the First examn., Pt. I., for the L.R.C.P. Lond., M.R.C.S. Eng., and (b) members of Univs. recognized under the Regns. of the Board. The *Second* examn. (in Surgery, including Surg., Anat., and Path.) is open, provided they have passed the First, to (a) M.R.C.S. Eng. who have been engaged not less than 6 yrs. in the study or study and practice of the profession, and (b) persons possessing the registrable Surg. and Med. degrees of the under-mentioned Univs., who have been engaged after obtaining such degrees in the study or study and practice of the profession for 4 yrs., including 1 yr. spent in attendance upon the Surg. Practice of a recognized Hospl. or Infirmary: the Univs. of the U.K., Alberta, Dalhousie, Laval, McGill, Manitoba, Montreal, Queen's (Kingston), Toronto, Western (Ont.), Adelaide, Melbourne, Sydney, N.Z., Bombay, Calcutta, Lucknow, Madras, Panjab, Allahabad, Hong-Kong, Malta, Cape Town, South Africa, Witwatersrand, Royal Italian Univs. and Imperial Univ. of Japan.

All the above exams. and Diplomas are open to WOMEN, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges. (For particulars concerning the Fellowship of the R.C.S. apply to The Director of Examinations, 8/11 Queen Square, London, W.C. 1.)

## ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SUR- GEONS OF GLASGOW

Joint exams, open alike to men and women, are held in Edinburgh (usually in Oct., Jan., and July) and in Glasgow (usually in March-April) for the DIPLOMAS IN MEDICINE, SURGERY, AND MIDWIFERY of these three bodies. The following are the Inspectors of Certificates—in Edinburgh, The Registrar, 49 George Square; in Glasgow, The Registrar, Faculty Hall, 242 St Vincent St—at least one week before.

Exams. for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs. or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in March in Glasgow.

*Address*—The Registrar, Triple Qualification, 49 George Square, Edinburgh.

The R.C.P. Edin. may admit to examn. for its single qualification—LICENCE—any candidate on the Medical Register. Fee, 15 gs.

Examns. held every month, except Sept. and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish Coll. of Phys. or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs., or, if a L.R.C.P. Edin., 20 gs. A member of 3 yrs.' standing may be elected FELLOW. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

*Address*—The Secretary, Royal College of Physicians, Edinburgh.

For admission to the FELLOWSHIP OF THE R.C.S. Edin. candidates must pass an examn. (fee, £10, *plus* £40 by those who pass. £10 is remitted to Licentiates, in consideration of the fees already paid, or for L.R.C.S. Edin., £35) in: (a) Principles and Practice of Surgery, including Surg. Anat.; (b) Clinical S.; (c) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886, and such foreign qualifications as may be approved by the President's Council.

Candidates may not appear more than 3 times at the examns.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

*Address*—The Secretary, Royal College of Surgeons, 49 George Square, Edinburgh.

Examns. for the LICENCE OF THE R.F.P.S. Glasgow can be arranged at any time, except August. Fee, 15 gs. Qualifications for admission: Licence of a Coll. of Physicians of the U.K., Dominions, or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing their qualifying examns.; Degree in Med. of a Univ. of the British Empire.

Examns. for the FELLOWSHIP OF THE R.F.P.S. Glasgow are held in Jan., April, July, and Oct. 14 days' notice required. Admission to the Fellowship (fee, £50, or for L.R.F.P.S., £40) is by examn. and subsequent election by ballot, or by election in virtue of high distinction in Med. Sc. or Practice of persons not under 40 yrs. of age who have been qualified for at least 10 yrs. Not more than 4 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty.

All examns. of the R.F.P.S. are open to women.

*Address*—The Secretary, Royal Faculty of Physicians and Surgeons, 242 St. Vincent St., Glasgow.

## ROYAL COLLEGE OF PHYSICIANS OF IRELAND AND ROYAL COLLEGE OF SURGEONS IN IRELAND

*Address of Committee of Management of the Conjoint Board*—Royal College of Surgeons, Stephen's Green, Dublin. Registrar of the R.C.P.—6 Kildare St., Dublin.

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) re Prelim. examn. and Registration of students. The *First Professional Examn.* (fee, £28:7s. payable as follows—2 gs. on entering for Pt. I. (a), 15 gs. for Pt. I (b) at the end of 1st yr., 10 gs. for Pt. II. at end of 2nd yr.) comprises—Pt. I. (a) Biol., (b) Applied Physics and Chem.; Pt. II. Anat., incl. Embryol.; Physiol., incl. Physiological Chem. and Histol. *Second* (fee, 9 gs.): (1) Mat. Med., Pharmacy, and Therap. (2) Forensic Med., Hyg. and Pub. Health. (3) Pathol., incl. Morbid Anat., Clin. Pathol., and Bacteriol. (4) Ophthalmol. and Aural Surg. *Third, or Final* (fee, 6 gs.): (1) Med., (2) Surg. (3) Midwif. and Gynæcol. A candidate may enter for all the subjects of this Examn. together, or any one or more separately.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P. and R.C.S. may be exempted from further examn. therein.

Examns. for the LICENCES OF THE R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Med. Practitioner registered by the Gen. Med. Council or on the Register of Saorstát Éireann if the Coll. be satisfied as to his character, courses of study and examns. passed. The examn. for the *Licence in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (a) of the U.K. or of Saorstát Éireann, who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (b) of 5 yrs.' standing who have so satisfied the College. Entrants under (b) are exempt from the written examn. Particulars are obtainable from the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for MEMBERSHIP OF THE R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Dec., Apr., and Sept. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (a) who have held for at least a year a Licence in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire registrable by the Gen. Med. Council; or (b) who hold a foreign qualification to practise Med. and

Surg. in their own country, obtained after a course of study satisfactory to the College. The testimony of a fellow or member of the Coll. or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Dipl. of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn. may, under special circumstances, be allowed by the Court of Examiners.

For admission to the FELLOWSHIP OF THE R.C.P.I. (fee, £35; stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a DIPLOMA IN MIDWIFERY. Candidates must have a registrable qualification and produce certificates of attendance at Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the FELLOWSHIP OF THE R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

## SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examns. for the Diploma of Licentiate in Med, Surg., and Midw. (L.M.S.S.A.) are held in London, the Pre-Medical Examn. in Chem., Physics, and Biol., and the Primary examn. in Materia Medica and Pharm., Anat., Physiol., and Histol. in Jan., April, July, and Oct., the Final, monthly, except in Sept. Fees: Pre-Med., 5 gs.; Primary and Final, 20 gs. For admission to either, certificates are required showing in detail the course of Medical study pursued, with particulars of instruction received, hospital practice attended, operations performed and offices held. The course covers 5 yrs. from the date of registration as a medical student. Exemption from the Pre-Med. or Primary may be obtained by passing equivalent examns. recognized by the Society.

Examns. for Diploma of Mastery of Midwifery (M.M.S.A.) are held in May and Nov. Special experience in Obstetrics, ante-natal, and infant welfare is required. Copies of Regns. and necessary schedules may be obtained from the Registrar.

## ROYAL COLLEGE OF VETERINARY SURGEONS

*Address*—10 Red Lion Sq., London, W C 1. The Royal College is the examining, diploma granting, and registering authority. *Affiliated Colleges* (for teaching purposes)—Royal V. College, Camden Town, London, N W 1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 5 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates in Arts, Sci., or Med.): Chem. and Elem. Physics; Biol., Elem. Zool., and Botany, Animal Husbandry, Pt I. 2nd year: Anat. of Dom. Animals, Physiol. and Biochem.; Histol. and Embryol. 3rd yr.: Anat.; Pharmacol. and Therap., Toxicol., Practical Pharmacy; Animal Husbandry, Pt. II. 4th yr.: V. Pathol., Bacteriol., etc., Clin. Pathol., Parasitol., V. Med. incl. Clin. Parasitol., V. Surg. Clin. Instrn 5th yr.: V. Med., Sp. Therap., Meat Inspection, V. Surg., Obstet., Jurispr. Clinic. An examn. (fee, 6 gs) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

The examn. for the *Diploma in V. State Medicine* is open to holders of M.R.C.V.S. after a special course at a V. School and training under a County or Municipal V. Inspector. Fee, £5: 5s.

Matriculated students of London or Edinburgh Univ. may sit for the Internal Degrees of B.Sc. and D.Sc. in Vet. Science. Matriculated students of the Liverpool School may take the examns. for the Degrees of B.V.Sc. and D.V.Sc. Holders of the M.R.C.V.S. may also, after taking a special post-graduate course at the Univ. of Liverpool, enter for the Dipl. in Vet. Hygiene (D.V.H.), and after a post-graduate course at the Univ. of Manchester for the Dipl. in Vet. State Medicine.

## THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address*—90 Buckingham Palace Road, London, S.W.1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (over 5000) include Medical men, Engineers, Architects, Municipal Officers, etc.

Qualifications for (1) *Membership*: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a University Degree, or Dipl. of a Med. Corporation recognized by the

Council, San. Science certif. of Surveyors' Instn., Testamur of the Instn. of Munic. and County Engineers, and membership of certain other professional bodies; (2) Associateship: one of the Inst.'s certificates or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to 2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R San.I.

Examns. held by the Institute (fee, 4 to 5 gs.). (1) Inspectors of Meat and other Foods; (2) Smoke Inspectors; (3) Sanitary Sci. as applied to Buildings, etc.; (4) Health Visitors; (5) School Hyg., including Elem. Physiol.; (6) Tropical Hyg. for Inspectors; (7) General Hyg. and Sanitation; (8) Food Hyg.; (9) San. Inspectors (overseas). The Institute's Certificates (Cert. R.San.I.) are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australasia, S. Africa, Hong-Kong, West Indies, Straits Settlements, British West Africa, Cyprus, and Mauritius. Examns. for San. Inspectors are held in Bombay and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn. Fees, 3 to 6 gs.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about ten yearly, are held in London and other large towns.

Congresses and exhibitions have been held almost every year since 1877.

*Publications.* *Journal*, monthly, and numerous pamphlets.

## THE ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886. Incorporated 1892. *Address*—23 Queen Square, London, W.C.1.

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs. and Medical Corporations. Fees for Laboratory Instruction: 6 months, 34 gs.; P.H. Admn., 15 gs.; Fever Hosp. Admn., 4 gs.; Special Lab. Fees., Chem. or Bact., according to requirements. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows, Members, and Students. Subscription, 1 g. p.a. Registration Fee, 1 g.

The Laboratories are recognized as a place of research in connexion with the Beit Memorial Fellowships. Researches and Clinical Examns. are undertaken for Public Bodies and Med. Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P.H. Works, Govt. Reports, etc.

*Publication.* *Journal of State Medicine*, monthly, 2s.



## THE INSTITUTE OF HYGIENE

Founded 1903. Incorporated by Royal Charter 1929. *Address*—28 Portland Place, London, W.1. *Telegrams*—Saluminate, Wesdo, London.

Examns. for Certificates and Diplomas (advanced) are held at various centres in the U.K. on the second Saturday of Jan. and of June. Subjects: General H., School H., Mothercraft and Child Welfare. Fee, 1 to 2 gs. Complete syllabus with list of Text Books, 1s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M.I.H.) respectively.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. conducts analytical and bacteriological investigation, and has a Museum of Hygiene open to the public free throughout the year.

## XII

## THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Minanmet, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst.M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (a) 2 yrs if a graduate of the R.S.M. or other mining college or school of equivalent standing; (b) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school, (c) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students' subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.-May. Large Library, reading- and writing-rooms. Publications: *Bulletin* monthly (£1:11:6 p.a.), and *Transactions* annually (£1:11:6 p.vol.) may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. *Secretary and Editor*: Charles McDermid.

## EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, etc. *Secretary-General*—Charles McDermid. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Minanmet, London."

## THE INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Instimini, Phone, London."

The Instn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn of Engineers, the Midland Inst. of Mining Engineers; the Mining Inst. of Scotland; the North of England Inst. of Mining and Mech. E. the North Staffs. Inst. of Min. E., and the South Staffs. and Warwickshire Inst. of Min. E. Membership is obtained by nomination through the Council of one of the Federated Institutes.

Conditions of admission to membership include: (a) regular education and training as a Min. E., and 5 yrs.' work in a responsible position in practical Mining; or (b) First-Class Certif. of Competency under Coal Mines Act, and tenure of post as Manager, Asst. Manager, Under Manager, or Chief Surveyor; or (c) position or attainments rendering his membership desirable in the opinion of the Council. There are Hon. Members, Members, Associate Members, Associates, and Students.

*Mavor and Coulson Travelling Studentship*, tenable abroad, £300 for 1 yr. Open to Brit. subjects over 22 and under 30 who are student members, Assocs., or Assoc. members of the Instn., have graduated in mining at a Univ. or Coll., or hold the Dip. in Mining of an approved Coll. or School of Mining, or who otherwise satisfy the Council that they have had a scient. training, and at least 2 yrs.' underground experience in a colliery.

*Publications. Transactions* (in which are included proceedgs. of

Federated Insts. as well as those of the Instn itself), 83 vols. Price to non-members, 36s. each for current volumes, back volumes at varying rates. Authorized signatures: M.I.Min.E.; Assoc.M.I.Min.E., etc. *Secretary and Editor*: Charles McDermid

## THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899 *Address*—28 Victoria St., London, S.W.1. *Telegrams*—Irosamente, Sowest, London.

*Qualifications*: (1) for Membership—minimum age, 21; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs.; annual subsn., 3 gs (if resident abroad, 2½ gs.). (2) For Associateship—maximum age, 24; being (a) Student of Metallurgy taking a course at a Univ., Univ. College, or Tech. School, or (b) pupil or apprentice in metall. or engin., or (c) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials: M.I.S.I., A.I.S.I.

Meetings in May and Sept for reading and discussion of papers. Library, reference and lending; Information Bureau; service not restricted to members.

*Carnegie Research Fund*—£20,000, interest on which is used for grants to assist metallurgists and students (maximum age 35) in conducting researches.

*Williams Prize Fund*—£3000, interest on which is applied as a money award for the best practical paper, on manufacture or treatment of iron or steel, presented in any one year.

*Publications*. *Journal* in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually; *Iron, Steel, and Industrial Fuel*, monthly (a survey of current tech. literature).

## THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St., London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Swansea, Sheffield.

The Institute aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual "May lecture" given by some acknowledged master of his subject; in addition a special "Practical lecture" is given annually in the autumn by an expert non-ferrous technician.

Qualifications for Ordinary Membership (M Inst.Met.): minimum age, 23; occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 18-23. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, 1 g and 1 g. Assoc. members of local sections pay a nominal subscription and do not receive the *Journal*. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Inst.

The monthly *Journal* contains *Metallurgical Abstracts* and domestic news; issued to members only. Price to non-members, £4 for the 3 annual vols (post free).

The *Special Library* contains all the current journals of interest to those concerned with metals.

## THE INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. *Address*—Aldine House, Bedford St., Strand, London, W.C.2.

Conditions of admission :

A. *To Membership* (M.Inst.P.T.). Candidates (a) must (1) be not less than 28 years of age, (2) have received a good general and scientific education, (3) have held for at least 5 years a responsible post in petroleum technology, or (b) must be in the opinion of the Council fit and proper persons to belong to the institution.

B. *To Associate Membership* (A.M.Inst.P.T.). Candidates must (1) have received a good general and scientific education, (2) have had at least 2 yrs.' practical experience as petroleum technologists.

Annual subscriptions: Students 1 g, Associates 2 gs., Assoc. members 2½ gs., Members 3 gs.

*Publications*. *Journal*, 12 Parts per annum (monthly). Annual Subscription, £3:13:6 (free to members). Rules, etc., 2s. 6d. *The Petroleum Industry*, 2s. 6d. *List of Members*, 2s. 6d. *Report of Standard Methods of Testing of Petroleum and its Products*, 7s. 6d. (Revised edition, 1929.)

## XIII

### THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter, 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 to 1932, it is illegal to practise as a Patent Agent without being duly registered. The

Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1932.

*Examinations* are conducted or recognized by the Inst. for (a) the Registration of P.A.'s and (b) the admission to the Inst. of Fellows, Associates, and Students. The Inst. recognizes as Preliminary examns. those of Matricn. standard.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, March 1. Subjects of (i.): A. Patent Law, Patent Agents' Practice; B. Designs, Trade-marks, Foreign Law, Manufactures, Science, and Drawings. Subjects of (ii): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications; C. Patent Agents' Practice. A candidate for admission to (i) must have passed one of the approved Prelim. examns. and (a) have served 3 yrs. as a pupil or technical asst. to one or more registered P.A.'s or (b) have so served for 2 yrs. and attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical experience, or (c) have so served for 1 yr. and taken a Univ. degree in the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience; or (d) have served in the Patent Office for 5 yrs. on the Examining Staff (Patents), or (e) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii.) must have passed (i.) and have served as above for a period of 2 yrs. in addition to terms under (a), (b), or (c) above, as case may be, or be entitled as in (e).

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (a) having ceased to be an Associate by reason of being in practice on own account as P.A.; (b) having passed Final examn.; (c) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.); (a) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst.; (b) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Intern. Examn. For Foreign Membership: having been established in practice as P.A. for a sufficient time, not less than 3 yrs. in a British Dominion, Colony, or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for "Studentship"—18. Other qualifications: being an articled pupil of a Registered P.A. and having passed an approved Prelim examn.

Entrance fee for Fellow, 3 gs.; Assoc., 2 gs.; Foreign Members, 2 gs.; Student, 1 g. Annual subs. Fellows, 3 gs.; Foreign Members, 2 gs.; other classes, 1 g. Fellows' initials: C.P.A.

## XIV

## PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

*Address*—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Oct. : the *Prelim. Sci.* examn. (fee, 6 gs.) followed by either the *Chemist and Druggist Qualifying* examn. (fee, 12 gs.), for registration under the Pharmacy Act, 1868 or the *Pharmaceutical Chemist Qualifying* examn. (fee, 12 gs., Jan. and July) for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can enter for the Prelim. Sci. examn. who is not a *Registered Apprentice or Student*, and this involves passing in four specified subjects at not more than 2 approved prelim. examns. of Matricn. standard.

The Society's *School* is recognized by the Univ. of London as a School of the Univ. in Pharmacy, and the Dean of the School is Univ. Prof. of Pharmaceutics.

## XV

## INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of four Societies and incorporated under the Companies' Acts in 1920. The participating Societies are : The Physical Society, the Faraday Society, the Royal Meteorological Society, and the British Institute of Radiology. *Address*—1 Lowther Gardens, Exhibition Rd., London, S.W.7.

Corporate members are of two classes : *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship are : (i.) the passing of an examn. held by the Inst. or a recognized equivalent examn. and (ii.), a yr.'s approved research or manufacturing experience. The examn. may be excused to candidates with qualifications approved by the Board. A candidate for Fellowship must, in addition to his associateship qualifications, have had 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns. 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men.

Student membership is open to persons over the age of 16, who have passed a recognized Prelim. examn. and are students at certain Univ. or schools or pupils of a Fellow of the Institute. Annual registration fee, 5s.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications"; II., III., IV., and V., Oxford Univ. Press. All later lectures published by Institute. *Journal of Scientific Instruments* (in co-op. with Nat. Phys. Laboratory) (monthly, 2s. 6d., subsn. 3os. p.a., payable to Cambridge Univ. Press); free to Fellows; Associates and Students, 1os. 6d p.a.

## XVI

### CHARTERED INSTITUTE OF SECRETARIES

#### OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—6 London Wall, London, E.C.2. Branches at Birmingham, Bristol, Hull, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Cardiff, Swansea, Edinburgh, Glasgow; and overseas in Canada (Montreal, Ottawa, Toronto), Australia (Brisbane, Melbourne, and Sydney), and South Africa (Johannesburg).

Examns. are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises (i.) English (Grammar, Compn., Dictn.), (ii.) Arith., (iii.) Engl. Hist. or Geog., and (iv.) one of Hist. or Geog. (if not taken under (iii.)), Latin, French, German or Spanish, or Algebra and Geometry. Approved examns. of matricn. standard exempt from the Prelim. examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Sci. of recognized Univs. in the U.K., S. Africa, Brit. Col., McGill, Montreal, Toronto, Melb., Syd., and those holding Diplomas in Econ. or Comm. of Sydney Univ., and persons who have passed the Final of the Bar Council, Law Soc., Inst. C.A., Soc. of Inc. Acctts. and Audrs, Ch. Ins Inst., Inst. of Bankers, (member) Inst. Bankers, Scotland, Inst. Bankers, S. Africa, Austrln. Corp. Pub Accts, Commw. Inst. Accts, Fedl. Inst. Accts., Inst. Inc. Accts., N.S.W., Ass. Pub. Accts., Austr. Inst. Pub. Accts., Australasia, are allowed a pass in the Intern. on attaining the usual standard of proficiency in any 4 of the specified examn. subjects they select approved by the Council, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the *Interm.* The subjects are: Econ., Sec. practice and duties (2 papers), Accts., Merc. Law, an approved foreign lang., or Banking and Exchange, and one special law subject (e.g. Companies or Insurance).

*Associate Membership* (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body; *Fellowship* (F.C.I.S.), after 8 yrs., of which 3 have been as Secy. or Asst. Secy. A Fellow may describe himself as a Chartered Secretary; so likewise may an Associate if having passed the *Final Examn.* he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

*Publications*: *Yearbook*; *Secretarial Practice* (12s. 6d.); *Powers of Attorney* (5s.); *The Secretary* (monthly, 1s.).

## THE INCORPORATED SECRETARIES ASSOCIATION

Incorporated 1907. *Address*—Secretaries House, 21 Bedford Square, W.C.1. Branches at Manchester, Liverpool, Birmingham, Leeds, Sheffield, Nottingham, Newcastle, Bristol, Glasgow, Cardiff, Swansea, Hull, etc., and in Bombay, South Africa, etc.

**EXAMINATIONS.**—Candidates for the examinations of the Association, Prelim., Interm., and Final, which are held in London and other centres in June and Dec., must be registered as Students or Graduates.

The subjects in which candidates are examined are almost identical with those of the Chartered Institute.

There are two grades of membership, which are available to both men and women on equal terms: (1) Associateship, initials: A.I.S.A.; and (2) Fellowship, initials: F.I.S.A. Both grades are entitled to describe themselves as "Incorporated Secretary."

*Publications*: *The Incorporated Secretaries Journal* (monthly), *A Manual of Secretarial Practice*, *Higher Book-keeping and Accounts*, and *The Secretarial Profession as a Career*.

## THE CORPORATION OF CERTIFIED SECRETARIES

Incorporated 1923. *Address*—20 Fishergate Hill, Preston, Lancashire. London Office—York House, 5 and 7 St. Mary Axe, London, E.C.3.

Examns. are held in London and various provincial centres in May and Nov. each year. Foreign and Colonial centres arranged as required.

*Preliminary Examn.* (fee, 10s 6d, minimum age, 15) comprises English, Geog., Arith., Gen. Knowledge, one of Hist. or Languages, or Shorthand speed. Exemption from the Prelim. Examn. may be granted provided the candidate is over 15 yrs. and produces evidence of having passed an examn. equivalent thereto, or who, owing to age and experience, satisfies the Council regarding the Examn. Bye-laws from time to time in force.



For admission to the *Intermediate* (fee, 1 g.) a candidate must have passed or been exempted from the Prelim. The subjects are Book-keeping and Accounts, Commercial Arith., Company Law or one of certain alternatives, Mercantile Law, Secretarial Practice and Duties.

For admission to the *Final* (fee, Pts I. and II., 1 g. each, complete, 1½ gs.) a candidate must have passed, or been exempted from, the Prelim. and Interim. examns. The subjects are: Pt. I—(i) Book-keeping and Accounts, (ii) Company Law or one of certain alternatives, (iii.) Secretarial Practice and Duties; Pt. II.—(iv) Econ., (v.) Mercantile Law, (vi) Law and Conduct of and Procedure at Meetings.

*Membership* A Fellow (F.C.C.S.) must be over 24 yrs. of age, an Associate (A.C.C.S.) over 21. Each may describe himself as a Certified Secretary. Registered Students, who must pay a registration fee of 10s. 6d.

*Fees* Entrance, 1 g.; Fellow, 1½ gs.; Associate, 1 g.

*Publication*: *The Certified Secretary* (bi-monthly, 6d. per copy, or 3s. 6d. p a.).

## XVII

### THE CHARTERED SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charters, 1881 and 1921.  
*Address*—12 Great George St., Westminster, S.W.1. *Telegrams*—Surveyable, Parl., London.

Professional examns. (fees: Interim. or Final, 5 gs.; Direct Fellowship, 5 gs.; applications receivable in Sept.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ g.) in Jan. in the same places and Manchester.

The *Preliminary* comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. Candidates are expected to reach the standard of the Oxford and Cambridge School Certificate examn. Candidates are exempt from the Prelim. if they have passed an approved examn. of matricn. standard, Inst. C.E. Studentship, Prelim. of Inst. C.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at an approved place of instruction (see below), be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may select any one of these subdivisions. For the (ii.) ordinary *Final* examn. the candidate must have passed the Interim. in the subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs. The (iv.) *Special Degree Holders* examn.

may be taken, on the same conditions as to professional training as (i.), by a candidate holding a Univ. degree in subjects bearing upon the surveying profession. All candidates for (i.), unless they have passed one of the exempting examns., must have passed the Prelim. Examn. or, if over the age of 25, a special test of general education.

Candidates between the ages of 18 and 21 who have passed the Prelim. or Exempting examn. are recommended to become Students. They must be pupils or assistants of a Surveyor or be taking a full-time course approved by the Council as bearing on the profession of Surveyor, at one of the Univs. of the U.K. or their Affiliated Colls., or one of the following: Harper Adams Agr. Coll., Newport; Univ. Coll., Southampton; Coll. of Estate Management; Midland Agr. Coll.; Seale-Hayne Agr. Coll., Newton Abbot; the School of Architecture, Regent Street Polytechnic; and, under certain conditions, the Northern Polytechnic, Holloway, N.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (iv.) or (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellowship (F.S.I.) a candidate must have passed either (i.) and (ii.) or (iii.) or (iv.), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

*Scholarships*: One scholarship is offered annually, value £100 for 3 yrs., to enable the scholar to read at Cambridge for the B.A. degree. The course must be taken from certain subjects prescribed by the Instn. Applns. should be submitted not later than the end of Feb. For further particulars apply to the Secretary. See also App. XXIII. (Travelling).

## XVIII

### TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. *Address*—Head Office, St. Mary's Parsonage, Manchester. Branch office, 104 Newgate Street, London, E.C.1.

The *Associateship* (A.T.I.) implies, in addition to Inst. membership for not less than 6 mos. prior to appln., attainments tested by examn. in connexion with recognized training instns., the passing of the Inst.'s Examn. in Genl. Textile Technology, and a period of approved occupation. The *Fellowship* (F.T.I.) involves systematic study or research, subsequent to Associateship, and a further period of approved occupation.

## XIX

EDUCATION AND TRAINING OF TEACHERS  
IN ENGLAND AND WALES

Courses of training for the teaching profession, recognized and aided under the Regulations of the Board of Education (Whitehall, London, S.W.1), are provided in Training Colleges and in the Training Departments which form part of the work of all Univs in England and of the constituent Colleges of the Univ. of Wales and the Univ. Colleges of Exeter, Nottingham, Southampton, Hull, and Leicester.

A person who desires to enter a Training College as a *recognized student* or as a *private student* intending to follow a course qualifying him for recognition as a Certificated Teacher must (i) be over the age of eighteen, or seventeen if he is commencing a four-year course which includes work for a University Degree, on the first day of the Academic year for which he is admitted to the College, or, if that day is the 1st August and the College authorities think fit, within two months thereafter; (ii.) have passed before admission a First Examination for Secondary Schools or some approved examination of at least equivalent standard (*e.g.* the Matriculation Examination of any Univ. in England or Wales); and (iii) satisfy the College authorities as to his character, probable suitability for the teaching profession, and health and physical capacity for teaching. A person who desires to enter as a recognized (*i.e.* grant-earning) student must also (iv.) be a British subject ordinarily resident in England or Wales, unless an exception to this rule is approved; and (v) sign a declaration of intention to complete the course of training and thereafter to adopt and follow the profession of teacher in an Approved school.

The principal types of courses at present recognized are: (i.) 4-year, *i.e.* 3 yrs. of study for a Univ. degree, followed by a year of professional training; (ii.) 2-year, including a period of professional training concurrently with a period of academic study; this course may, under special conditions for individual students, be extended for a third year or renewed for a year after three years' teaching in approved schools; (iii.) 1-year, for graduates or Certificated Teachers who have not previously been trained at Training Colleges.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th year if he has completed 1 yr., 2 yrs., or the whole of the course for a degree before entering the Training Department. He will not as a rule be certificated as a Teacher unless he has passed a Final examination for a degree.

As regards (ii.), suitable Univ. examinations forming recognized stages in courses for degrees may, for the present and subject to certain conditions, be approved for individual students as alternative final examinations in academic subjects.

A course of training extending over not less than 1 yr. at a Secondary School and providing for a systematic study of the principles and practice of teaching may be approved for a person who has obtained a Univ. degree, and a grant may be paid by the Board to the Governing Body of the School.

Teachers with at least 5 years' teaching experience are eligible for Studentships: "Full-time Studentships" are grants at a rate not exceeding £100 for an academic year for full-time courses of advanced study or research either at Univs. or other institutions; these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, but not for the whole or part of an ordinary degree course.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers: (1) A.C.P., (2) L.C.P., (3) F.C.P. The A.C.P. and L.C.P. examns. include a written examn. and a practical test of ability to teach. Candidates for the A.C.P. must show that they have reached an approved standard in general education. The L.C.P. examn. is open to University graduates and holders of the A.C.P. Diploma. Candidates must submit evidence of 2 years' professional experience for A.C.P. and 3 years' experience for L.C.P. The F.C.P. Diploma is granted to candidates who, having already obtained the L.C.P. Diploma, submit a satisfactory thesis on some original research or experimental work in Education.

The *College of Handicraft* (Hon Registrar, Ivor John, F.Coll.H., M.R.S.T., 124 Belgrave Road, London, S.W.1), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to members of the Institute who satisfy the Bd. of Examiners of the Coll. The standard of examn. is stated to be that of a University Diploma in Education, and the examns. are held in Jan. of each year. A necessary qualification is recognition by the Board of Education as qualified teacher. A Summer School and a Correspondence Course of Study form part of the College activities, and prizes are awarded for research into the problems of Practical Education. Initials: M.Coll.H., etc. Academical dress may be worn by Members and Fellows.

### INTERCHANGE OF TEACHERS

Arrangements exist for the interchange of teachers in Secondary Schools between this country and the Dominions, France, Germany, and the United States, and also as regards teachers in Elementary Schools with the Dominions. The usual conditions of interchange, which is normally for one year, are that the teachers concerned are granted special leave of absence on full pay; they thus remain during the period of exchange in the service of their home authorities, and the period of interchange counts for salary-increment and pension. The Teachers Superannuation Act of 1925 further makes it possible for a teacher to leave service in a grant-aided school in England, and to serve for not more than 4 yrs. in the Empire overseas without forfeiture of pension

rights, provided 10 per cent. of the salary last received in England is paid by the teacher for the period of overseas service.

The *League of the Empire*, 124 Belgrave Rd., London, S.W.1, promotes the interchange of teachers between the Mother Country and the Dominions on the lines laid down above. The London County Council authorize the exchange of 50 teachers annually, 133 local authorities in Gt. Britain also co-operate, and over 2000 teachers have been exchanged. Canadian, Australian, S African, and New Zealand Education Depts. reciprocate. A triennial Conference on Imperial Education is held by the League. An article on the *Interchange of Teachers Scheme* was printed by the Board of Education in their Report for the year 1925-26. The League has appealed for funds for establishing a "Home Centre" in London, where teachers from any part of the Empire may find housing accommodation, and which should act as a good publicity centre for imperial affairs. Chairman, Prof. E. A. Gardner, M.A., Litt.D. Hon. Treasurer, Lord Askwith, K C.B.

The *Overseas Education League*, under the auspices of the Governments of the Dominion of Canada, New Zealand, and Newfoundland, as well as the Education Depts. of the Provinces of Canada, undertakes the organization of official visits of teachers and students to Gt. Britain and other parts of the Empire as well as Europe. Arranges the interchanges of teachers. Organizes Summer Schools in English, French, German, Spanish, Drama, Physical Education, and Folk Dancing. British teachers and students travel through Canada under its auspices. Hon. Secretary, Major Fred. J. Ney, Power Building, Winnipeg, Canada.

The *Fellowship of the Maple Leaf* for the supply of British teachers for the Dominions is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—13 Victoria St., Westminster, S.W.1.

*British Interchange Committee.* The organization for the exchange of teachers in secondary and other schools in this country with similar teachers in foreign countries has recently been studied by the British National Committee of Intellectual Co-operation under the League of Nations. As the result of two Conferences of teachers' organizations, local education authorities, and other bodies interested in the question, a representative national co-ordinating Committee has been established with an Executive Committee to co-ordinate and assist the various organizations engaged in promoting the exchange of teachers with foreign countries. The Chairman of the Committee, which has been recognized by the British National Committee of Intellectual Co-operation as one of its Sub-Committees, is Mr. R. G. Mayor, C.B., late Principal Asst. Secretary of the Board of Education for England and Wales. Secretary, Mr. Oliver Bell, M.A., 15 Grosvenor Crescent, London, S.W.1.

## TEACHERS' REGISTRATION COUNCIL

Established by Act of Parliament 1907, and constituted by Orders in Council 1912 and 1926. Address—47 Bedford Sq, London, W.C.1.

The Conditions of Registration are: (a) a degree or other qualifica-

tion approved by the Council ; if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos. must have been concurrent with or subsequent to the course for the degree (or other qualification) ; (b) successful completion of a course, extending over at least 1 academic year or its equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision ; (c) experience as a teacher in educational institns. accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 1 academic year.

Condition (b) is waived in the case of a teacher who has had not less than 1 academic yr. of experience as Recognized Teacher in Univs. and instns. of Univ. rank approved by the Council for this purpose. Until further notice condition (b) will be modified in other cases where the Council is satisfied that special circumstances have prevented the applicant from taking an approved course of training in teaching.

Registration fee : A single and final payment of £3

## ROYAL SOCIETY OF TEACHERS

*Executive* : The Teachers Registration Council. *President* : The Rt. Hon. Lord Gorell, C.B.E., M.C. Membership is restricted to those who have satisfied the conditions of Registration, and have been admitted to the Official Register of Teachers maintained by the Council. Initials : M.R.S.T.

## ASSOCIATION OF UNIVERSITY TEACHERS

*Hon. Gen. Secretary*—Prof. R. Douglas Laurie, M.A., University College of Wales, Aberystwyth. The objects of the Association are : The advancement of University education and research, the promotion of common action among University teachers and the safeguarding of the interests of its members. Membership is open to all full-time teachers and research workers on the staffs of institutions of Univ. rank in England, Wales, and Northern Ireland. In addition to the ordinary members, who are at the same time members of one or other of the 26 Local Associations, there are a number of attached members in instns. where no Local Assn. exists, and a few Corresponding Members in overseas Univs.

For particulars of the Library Co-operation Inquiry Office, see p. 6.

*Annual subscription* : Ordinary members, 15s. ; Corresponding members, 5s.

*Publications* : *Various Special Reports* ; *The Universities' Review* (April and Oct.), 2s.

## XX

## ASSOCIATION OF SCIENTIFIC WORKERS

Founded 1918. *Address*—70 Victoria Street, London, S.W.1

Aims at bringing together into one professional organization all qualified scientific workers, viz.: those engaged in (a) University and other Higher Educational Institutions and State-aided Research Institutions, (b) Industry and Consultative Practice, (c) State and Municipal Scientific Departments. Yearly subscription, 10s. min. Official journal, published 6 times a year, *Progress and the Scientific Worker*. President, Sir Richard Redmayne, K.C.B.; Hon. Secy., B. W. Holman, O.B.E.; Asst. Secy., E. Dexter-Smith.

## XXI

## THE LIBRARY ASSOCIATION

Founded 1877. Incorporated by Royal Charter, 1898. *Address*—26-27 Bedford Sq., London, W.C.1

Admission to the Register of Librarians, which is maintained by the Assn., can be secured either by the Diploma (fee, 1 g.) which entitles its holder to Fellowship of the Assn. (F.L.A.), or by passing the Interim Examn. and thus becoming an Associate (A.L.A.). No candidate who is not a member or transitional member of the Assn. will be admitted to any of the examns. unless the holder of one or more sectional certs., obtained prior to Jan. 1, 1930.

*Elementary Examn.* (fee, 10s. 6d.). Candidates must be not less than 17 and have passed one of the following—a School or Higher Certif. Examn. of one of the recognized examining bodies, a Matricn. or Entrance Examn. of a Univ. in the U.K. or other approved Univ., and certain other examns. Subjects—Elem. English Literary Hist., Elem. Classification, Cataloguing and Accession Methods; Elem. Library Administration. *Interim*. (fee, 1 g.). Candidates must have passed the Elem. Examn. and hold an approved certif. in one of certain langs. Subjects—Library Classification, Library Cataloguing. *Final* (fee, 1½ gs.). Candidates must have passed the Interim., hold a second approved lang. certif. and a certif. showing he has worked for not less than 24 hrs. a wk. for at least 3 yrs. as a member of the admin. staff of one or more libraries approved by the Council. Subjects—Pt. I.: English Literary Hist. or Lit. Hist. of Sci. or of Econ. and Comm. (A grad. in English, Sci. or Econ. of an approved Univ. may apply for exemption from Pt. I.) Pt. II.: Biblog. and book selection. Pt. III.: Advanced Library Admin.

The Examns. are held in May (appln. on or before Mar. 31) and Dec. (appln. on or before Oct. 31). Further particulars from the Secretary.

*Publications*: *The Library Association Record* (monthly); *The Library Assn. Yearbook*; *The Subject Index to Periodicals* (annual); *The Year's Work in Librarianship* (annual).

## XXII

## QUALIFICATIONS FOR ADMISSION TO A FIRST DEGREE IN THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

## GENERAL OUTLINE

This Appendix relates only to the admission of students proposing to take full courses for a First degree.\* A comparison of the university regulations regarding admission discloses a general agreement in principle, with divergencies in application. Before inserting a student's name *in matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree. This is tested either by a matric. examn. held by the Univ. or group of Univs. concerned, or by the candidate's performance in an equivalent examn. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns a condition of admission to the College. Bristol has discontinued its matricn. examn as superfluous in view of the institution of the School Certificate and Higher Certif. examns., and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned. Reading holds neither school examns nor, except for candidates of mature years (25 or over), a matriculation examn., accepting, instead, credentials required by London or the Northern (English) Universities Joint Board.

A Matriculation Examination for persons of mature years has been instituted by the above-mentioned Joint Board, and by London, Belfast, and Reading (*see* thereunder).

SCHOOL EXAMINATIONS.—ENGLAND AND WALES A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board—

I. As approved "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects (generally 5) in the three main groups of School

\* A résumé of regulations regarding concessions made to those who seek admission with advanced standing on the ground of having already pursued courses in other Universities is given on pp. 12-13.

Students desiring to study in a University without intending to graduate are generally admitted if they satisfy the authorities that they are qualified to profit by the course of study they propose to take, and if accommodation is available for them.



subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ. —

"School Certificate" examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy for Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as "Senior Local" examns.), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board; "The General School" examn. of London; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, "First Examinations" include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As approved "Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course: —The "Higher Certificate" examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Examns.), Cambridge (Syndicate for Local Examns.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a "Secondary School Examinations Council" composed of 22 representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council under a Chairman appointed by the Board of Education. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies, that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate; and that estimates of the merits of their candidates in each of the subjects offered by them, if submitted by Head Masters and Head Mistresses, are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants from the Board of Education to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn. fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (*see* preceding

Appendices), as exempting from entrance examns. The "Second Examinations" are also recognized by many Univs. for exemption from Intermediate Examns. and for admission to Honours courses, etc.

The Higher School Certificate qualifies for exemption from the Intermediate degree examns. in the faculties of arts, pure science, or applied science, subject to certain conditions, at Durham and Bristol; also from the pre-registration examn in physics and chemistry in the Faculty of Medicine at Durham; in science and engineering and in chemistry and physics for first M.B., Ch.B., and first B.D.S. at Liverpool; in arts, science, engineering and metallurgy at Birmingham and Sheffield; from certain courses in arts at Manchester and Leeds; and from the external and internal degree examns. in arts, science, economics, and commerce of London Univ., either in whole or in part, according to the subjects taken; at Reading, for exemption or partial exemption from the Inter. Examns. in the faculties of letters, science, and agriculture and horticulture, subject to certain conditions. (*See below under each Univ. or group of Univs*)

**WALES.** The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn.; so, also, are certifs. of other First Examns. (*See below*)

**SCOTLAND.** On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board has provided by "General Regulations" for the recognition of Group Certifs. of the Scottish Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions is provided for by "Special" Regns. (*See below.*)

**IRELAND.** The Leaving Certificate of the Dept. of Education of the Irish Free State or the Senior Certificate of the Ministry of Education of Northern Ireland is accepted by the Univ. of Dublin and the National Univ. of Ireland, subject for subject, in lieu of their matricn. examns., and (subject to special conditions in respect of Maths.) by Belfast. Belfast and the N.U.I. also accept, subject for subject, certain other certificates. (*See below.*)

**ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES.** As regards students educated in another country the regulations are drafted on the understanding that the application of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary

education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications: ordinarily, certs. which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English. Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. When certificates are in a foreign language they should ordinarily be accompanied by a certified English translation. Unless the certificate shows on its face that it would admit the holder to a Univ. in his own country it should be accompanied by an authenticated declaration by a Government Official, or Official of an Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that the certificate would entitle the holder to enter on a regular course of study in a Univ. or Technical Coll. affiliated to a Univ. in that country. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. The regulations are summarized below under each Univ. or group of Univs.

SCHOOL EXAMINATIONS IN OTHER COUNTRIES are also recognized for admission to the Univs. of the United Kingdom. (See below under each Univ. or group of Univs.)

### SPECIFIC CONDITIONS

In general terms candidates for admission to a University in Great Britain or Ireland, unless they are graduates of a recognized University, must have passed the appropriate Matriculation Examn. of that Univ. in five subjects, of which English and a classical language\* must be two, or they must have passed an alternative exempting examn. in five subjects (including English and a classical language\*) at the required standard. The exempting examns., indicated by a number in this Appendix, are as follows.

1. Oxford Responsions;
2. Cambridge Previous;
3. London Matriculation;
4. Durham Matriculation (for the Durham Colleges);
5. Wales Matriculation;
6. Joint Board of Northern English Univs. (Birm., Leeds, Liv., Manc., Sheff.) Matriculation;

\* In the Univs. under the Northern (English) Univs. Jt. Bd. Maths. may be substituted.

7. Joint Board of Northern English Univs. Certificate (a) Higher, (b) School ;
8. Oxford and Cambridge Schools Examn. Board's (a) Higher, (b) School ;
9. Oxford School Certificate (a) Higher Local, (b) Senior Local ;
10. Cambridge School Certificate (a) Higher Local, (b) Senior Local ;
11. Bristol Certificate (a) Higher, (b) School ;
12. Durham Certificate (a) Higher, (b) School ;
13. London General School ;
14. Central Welsh Board's (a) Higher Certificate, (b) School ;
15. Scottish Education Dept. Leaving Certificate ;
16. Scottish Universities Entrance Board Preliminary Examn. ;
17. Northern Ireland Secondary School Examn. Senior Certificate ;
18. Belfast Matriculation ;
19. National University of Ireland Matriculation ;
20. Irish Free State Leaving Examn. Certificate ;
21. Dublin, Trinity College, Matriculation ;
22. Army Education Certificate.

These examns. may be grouped as follows :

Higher School Examns. 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a), 14 (a).

School Certificates. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15, 17, 20.

Matriculation. 1, 2, 3, 4, 5, 6, 16, 18, 21.

In addition certain Universities, *e.g.* those grouped under the Joint Board (No. 6 above), and Durham University, have special regulations for individual faculties (as to the subjects to be taken at the qualifying Entrance Examn.). The Scottish Universities have regulations as to subjects taken at the Entrance Examn. which affect admission to specific classes. The Universities also include certain examns. other than those enumerated above as qualifying for admission. These examns. and the conditions affecting them are referred to in the text below under each University or group of Universities

## THE NORTHERN (ENGLISH) UNIVERSITIES JOINT BOARD

BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The Matriculation Examn. held at each of these Univs. in July and Sept. (fee, £2) is conducted by a *Joint Board*. Address of the Secy (J. M. Crofts), 315 Oxford Rd., Manchester. Candidates are required to satisfy the examiners at one and the same examn. in English Composition, in 5 subjects chosen as follows, and to obtain a minimum aggregate of marks in these subjects taken together : I. English Literature or History ; II. Maths. or Latin ; III. three other subjects, not already taken under I. and II., chosen from : 1. Engl. Lit., 2. Hist., 3. Geog., 4. Music or Art, 5. Greek, 6. Latin, 7. French, 8. German, 9. any other Approved Language, 10. Maths, 11. Mechanics, 12. Physics, 13. Chem., 14. Physics-with-Chemistry, 15. Biology or Botany ; provided that candidates who take Maths. under II. must include one of subjects 5-9, and those who take Latin under II. must include one of 10-15. A paper on " Experimental Science in its

relation to Agricultural Life" may be taken along with 15 but not with 12, 13, or 14. Candidates who take the Mechanics portion of the Physics paper may not take Mechanics as a separate subject Physics-with-Chem. may not be taken by candidates who take Physics or Chem. or Mechanics or Agric. Science. Agric. Science may not be taken by candidates who take Physics or Chem. or Physics-with-Chem. Application to present any other language must be made and the fee (incl. any special fee for this language) paid on or before March 1. The several Univs. impose special conditions for entrance to certain Faculties. (See below.)

### *Exempting Examinations*

*In General*—Exemption may, at the discretion of the Board, be granted to "applicants holding certificates of having passed examns., of a standard at least equal to" that required for matricn. in England.

*Great Britain and Ireland*—Subject to provisos already stated, Nos. 1, 2, 3, 4, 5, 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15, 16, 17, 18, 19, 20, 21, 22 (at advanced standard)

At the Board's discretion other examns. of equal or higher standard, among them London Intermediate Examns, Final Examn. of Law Society (in the case of a barrister or solicitor entering the Faculty of Law).

A degree conferred by an approved Univ. after examn. Trained Certificated Teachers are exempted under certain conditions.

A *Special Examination* for candidates of mature years (not under 23 on May 1 of year of application) is held. Applications (with fee, £2, and birth certif.) will be received up to May 1.

A *Special Examination* is held for candidates not under 19 yrs. of age, who have been engaged in industry for at least 3 yrs. since leaving school, and have as students attended satisfactory day or evening courses for at least 3 yrs English Composition and English (or History) and a foreign language are compulsory subjects. Date, July. Fee, £2

*Overseas (other than India)*—Matriculation Examn Certificate of a recognized Univ. of the Empire subject to the Board's requirements as to subjects, provided all subjects are passed at one and the same examn.

*India*—The certificate of having passed at one and the same examn. the Intermediate Examn in Arts, Science or Medicine of an approved Indian Univ.

*Palestine*—The Matriculation Certificate with a pass in English, Syllabus A, and not including Geography as one of the six subjects required at that examn.

*Egypt*—Secondary Education Certificate, Part II., of the Ministry of Education.

Some other overseas examns. are accepted by the Joint Matriculation Board, subject to certain conditions. Particulars from the Secretary.

*N B.—Birmingham.* Applications from overseas students must be received on or before June 1.

*Leeds* receives applications from persons resident outside the United Kingdom up to May 31.

At *Liverpool* the Senate, after report from the faculty concerned,

determines before registration whether the applications of foreign, Egyptian, or Indian students shall be accepted. Applications for registration from such students must be received before Oct 1 in each year, and must be accompanied by detailed references certifying as to character and educational qualifications.

*Special Regulations for Entrance to Faculties*

**BIRMINGHAM.** Candidates entering the *Arts* faculty, except those taking a degree in Music, must have passed in Latin (or Greek) and a Modern language.

*Law.* Candidates for the LL.B. must have passed in Latin

*Science.* Those taking B.Sc. in Pure Science are recommended to take both French and German in the Matricn. Examn.

*Medicine.* Candidates are required to pass in English, Maths. and a language other than English.

**LEEDS.** For admission to courses for the B.A. a Latin qualification is required.

*Medical* and *Dental* students are ordinarily required to have passed in Maths at the Matricn Examn.

*Admission to Advanced Standing*

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn) therein towards graduation in Leeds

**LIVERPOOL.** Candidates for the B A are required to have passed in Latin or Greek at matricn. standard.

*Engineering.* Students are recommended to pass in Maths. (with the paper in Additional Maths.) and one or two of . Mechanics, Physics, Chem. Students in Metallurgy are recommended to include Chem. in the Matricn. Examn. and in the Higher School Certif. Examn.

*Medical* and *Dental* students must have passed in Maths.

**MANCHESTER.** Students entering for the following degree courses must pass the Matriculation examn. in the subjects named or give evidence of having attained an equivalent standard. 1. Hons. Schools in *Arts* (save Archit, Econ., Philos, Geog. and Oriental Studies)—Latin (or in certain cases Greek), unless prepared to devote 4 yrs. to the course. 2. *Science*—Maths. and Mechanics. 3. *Law*—Latin. 4. *Medicine*—Latin, Maths., and Mechanics. 5. *Technology*—Maths.

**SHEFFIELD.** Candidates for the B.A. Hons. (other than in Maths., Econ., Geog. or Archit.) for the ordinary B.A. or for the B.Mus. must pass the Intermediate Examn. in Latin or Greek, and an adequate elementary knowledge of the language or of music is required before entry on a language or music course for the Intermediate Examn.

*Law* students must have qualified in Latin.

*Engineering* students should present Maths. and include Mechanics or Physics or Chemistry.

*Metallurgy* students should present Maths, Physics, and Chemistry.

## BRISTOL

The University holds no Matriculation Examn. but recognizes the following as qualifying for matricn. :

*Exempting Examinations*

*Great Britain and Ireland.* (a) Nos. 1, 2, 3, 4, 5, 6, 15, 22; also 7 (a), 8 (a), 11 (a), 12 (a), 14 (a), provided candidates hold a First School Certificate; and 7 (b), 8 (b), 12 (b), 14 (b) with credit in 5 subjects taken at one and the same time, which must comprise (1) either English or Hist.; (2) Maths. or Latin or Gk.; (3) three other subjects not already taken under (1) and (2) from the following, under certain conditions. Geog.; Music or Art or Relig. Knowl., French, German, any other approved lang., Maths., Mechs., Physics, Chem., Bot., Biol., Gen. Elem. Sci., Geol., Agric. Sci. The last named if the Senate is satisfied that such proficiency has been shown in a particular group of subjects as to qualify for curriculum for degree.

(b) Trained certificated teachers' qualifications under certain conditions.

(c) Graduation in a Univ. in the U.K. or in some other approved Univ.

(d) Sufficient qualification for original research in case of candidate for a research degree.

(e) In exceptional circumstances sufficient education and attainments in the case of candidates over 23 yrs.

*Overseas Students.* A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matricn. Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matricn. at Bristol; if from an oriental country, he must submit evidence of previous education in his own country and of ability to follow instruction given in English.

*Palestine.* The Palestine Matriculation Certif. is accepted for exemption provided it shows a pass in English under Syllabus A, and that the 6 subjects in which the candidate has passed include 5 which conform to the matricn. requirements of the Univ. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matricn.

## CAMBRIDGE

To become an undergraduate member of the Univ. a person must first be admitted either as a member of a College or as a Non-Collegiate student. No person, except Research Students (*see* p. 58) and certain others, may be matriculated who has not passed or been exempted from the Previous Examn.

For admission to a College or as a Non-Collegiate student application should be made to the proper officer: the Tutor for Admissions, Christ's; the Senior Tutor, Gonville and Caius, St. John's, Cath., Down.; the Tutor, Clare, Corp., Pet., Trin. H.; one of the Tutors, Trin.; the Provost or Tutor, King's; the President, Queens'; the Master, Emm., Jesus, Magd., Pem., Sid., Sel.; the Censor, Fitzwilliam House (Non-Coll. students); the Secretary, Girton; the Principal, Newnham. It is advisable to apply at least 12 mos. beforehand.

The *Previous Examination* comprises : I. (a) Latin, (b) Greek, (c) French, (d) German, (e) Italian, (f) Spanish, II. (a) Maths (elementary), (b) Maths. (less elementary), (c) Experimental Physics and/or Chemistry ; III. (a) English essay and précis writing, (b) Holy Scripture (a Gospel or the Acts of the Apostles), (c) English History.

Candidates must pass in at least two of the languages in Part I., including (a) or (b), in II. (a) and either II. (b) or II. (c), and in III. (a) and either III. (b) or III. (c). The parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (a)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (a).

### *Exempting Examinations*

*Great Britain and Ireland*—Exemption, complete or partial, is obtainable under certain conditions by means of School Certificates, Matriculation Certificates, etc. (*see below*) ; Higher (School) Certificates ; Certificates of Graduation at any Univ. in Great Britain, except Reading ; Certificates of the Navy, Army, and Air Force Entrance Examn and the Dartmouth Passing Out Examn.

*Matriculation Certificates*, etc. Certificates of approved examns. (*see below*) give exemption from the whole Previous Examn., for passes in Latin or Greek, in a subject of Schedule A (*see below*), in English, and in a fourth subject ; from all but Latin or Greek, for passes in a language other than English or Latin or Greek, in a subject of Schedule A, in English, and in a fourth subject ; from Part I., for passes in Latin or Greek, and in a second language other than English ; from Part II., for a pass in a subject of Schedule A ; from Part III., for a pass in English.

Schedule A comprises Maths. ; Elem. Maths. ; Higher Maths. ; Mechanics ; Physics ; Chem. ; Physics-and-Chemistry ; Heat, Light and Sound ; Electricity and Magnetism ; Gen. Sci. ; Biol. ; Bot. ; Zool. ; and Nat. History.

The approved examns. and certificates are Nos. 1, 3, 4, 5, 6, 16, 17, 18, 19, 21, and examns. subsequent to Matricn., held by any of these Univs. Also Nos. 7, 8, 9, 10, 11, 12, 13, 14, if passed *with credit*, and 15 under certain other conditions.

Exemption is also given to Commissioned Officers of H.M. Forces who are resident in Cambridge under the orders of the Naval, Military or Air Force Authorities.

*Dominions*. The Matricn. Examns. of Univs. of Dalhousie, McGill, Manitoba, New Brunswick, New Zealand, Queensland, Saskatchewan, Sydney, Toronto, and the S. African Univs. ; examns. normally recognized for purposes of matricn. by the Univs. of Adelaide, Alberta, British Columbia, Melbourne, Queen's (Kingston, Ont.), Tasmania, W. Ontario ; and examns., subsequent to matricn., held by any of these Univs.

*India*—A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ., is exempted from the Previous Examn., provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit or Pali, in Maths. or Science, and in English.



Univs. approved for the purposes mentioned in the preceding paragraph are approved with reference to this paragraph also, together with the Univs. of Agra, Aligarh, Andhra, Benares, and Nagpur.

A candidate who has obtained a First Class in the Intermediate Examn. held by the Board of High School and Intermediate Education of the United Provinces of India, or by the Board of High School and Intermediate Education, Rajputana, Central India, and Gwalior, or in the Intermediate Examn. of the Board of Intermediate or Secondary Education, Dacca, is exempted if either in this examn. or the High School Examn. which leads up to it he has passed in a classical language, Maths., English and History or Geography.

*Europe.* The holder of a certificate qualifying him for admission without further examn into the Univ. of any European State may be exempted from Part I., if the certificate includes two languages, other than his mother tongue, of which one is Latin or Greek; from Part II., if it includes Mathematics or Science; from Part III., if it includes a modern language, which may be his mother tongue, other than that used for exemption from Part I.

*U.S.A.*—A student who has either (a) passed the examn. of the Coll. Ent. Examn. Bd. for admission to a Univ. or Coll. of the U.S.A., or (b) qualified for admission to a Univ. or Coll. of the U.S.A. which is an "Associated Institution"; and in the Bd.'s examn., or in examns. conducted by the Assoc. Inst., or partly in one and partly in the other, has obtained the requisite units (or an equivalent standard), may be exempted from Part I., for 4 units in Latin or Greek, and 3 units in a second language other than English; from Part II., for 3 units in Maths. or Sci., or partly in Maths. and partly in Sci.; from Part III., for 3 units in English.

*Egypt*—Holders of the Egyptian Government Secondary Education Certif. who are not of European parentage are exempted from Parts II. and III., and also from Part I. provided that in one at least of the two examns. for the Certificate they have passed in French.

*Palestine*—A student of non-European descent who has been awarded a scholarship by the Govt. of Palestine for study at Cambridge is exempted if he is a B.A. of the American Univ. of Beirut and if the examns. leading up to his degree include English, Maths., or Science, and one of the languages Greek, Latin, French, German, Arabic, Hebrew.

The holder of a Matriculation Certificate of the Palestine Bd. of Higher Studies who is not of European parentage is exempted from Part I., if he has passed in two languages other than English, whether taken in Group I. or Group IV., from Part II., if he has passed in Elementary Mathematics (Group IV.), and in one of the following sciences of Group V.: General Physics; Additional Maths.; Mechanics and Hydrostatics; Heat, Light, and Sound; Elect. and Magnetism; Chem.; from Part III., if he has passed in English either in Group I. or in Group IV. In a particular case subjects passed in the Intern. or the Final Examn. for the Arts and Science Dipl. of the Bd. may be approved for exemption in lieu of corresponding subjects in the Matriculation Examn.

*Admission to Advanced Standing.* A graduate of an "Associated Institution" who has been a member of it for 3 yrs. is entitled to the

privileges of an Affiliated Student. The "Associated Institutions" are: (1) all the Univs. of Great Britain and Ireland, and St. David's College, Lampeter, (2) in Canada—Alberta, Br. Col., Dalh., McGill, Manit., New Bruns., Queen's, Sask., Tor., Western Ontario; (3) in Australia—all; (4) New Zealand; (5) Hong-Kong; (6) in S. Africa—all; (7) in India—All, Bom., Calc., Dacca, Delhi, Lucknow, Madras, Panj., Patna, Rangoon; (8) in U.S.A.—the 27 institutions belonging to the Assocn. of American Univs. (see Appendix XXVI p. 870), and the following institutions of complex organization: Amherst Coll.; Bates Coll.; Bost. Univ.; Bowdoin Coll.; Brown Univ.; Bryn Mawr Coll.; Cinc. Univ.; Colorado Univ.; Dartmouth Coll.; Georgetown Univ., D.C.; Haverford Coll., Penn.; Mass. Inst. of Tech.; New York Univ.; Pittsburgh Univ.; Radcliffe Coll., Camb., Mass.; St. Louis Univ., Miss.; Smith Coll.; Swarthmore Coll.; Tex. Univ.; Vand. Univ.; Vassar Coll.; Wash. (Seattle) Univ.; Wellesley Coll.; Western Reserve Univ.; Williams Coll.

The following may also be admitted as *Affiliated Students*: (a) certain adult students recommended by the Board of Extra-mural Studies; (b) certain other students on a Grace proposed by the Council of the Senate. An Affiliated Student is entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of certain provisions respecting the standing of candidates for (a) Tripos exams, or for degrees in Law or Music, and (b) degrees other than the Ordinary B.A. degree or degrees of M.Sc., M.Litt., and Ph.D.; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

*Incorporation* Admission by incorporation of graduates of Oxford and Dublin. See p. 55.

## DURHAM

### DURHAM DIVISION

A Matriculation Examn. is held for admission to the Durham Colleges only, but it admits as formerly to degree courses in Arts, Theol. and Pure Science in the Univ.

### *Exempting Examinations*

*Great Britain and Ireland*—(a) Nos. 7 (a), 8 (a), 10 (a), 11 (a), 12 (a), 14 (a), subject to certain conditions.

(b) Nos. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15 (Higher Hons. Grade), 17, 20, with credit in not less than 5 subjects other than Religious Knowledge and subjects in Group D.

(c) Nos. 1, 2, 3, 4, 5, 6, 16, 18, 21, provided that the foreign languages required in the Durham Matricn. Examn. are included.

(d) No. 22.

(e) Success in an Entrance Scholarship Examn.

(f) Graduation in a Univ. of the U.K. or of such other Univs. as may be recognized from time to time by the Matriculation Board.

*Dominions*—(i.) Irish Free State Leaving Certificate; (ii.) Newfoundland Certificate of Jnr. Associated Grade of Council of Higher Education.

*India*—Intermediate Examns. of Indian Univs.

*Colonies*—Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

*Palestine*—Matriculation Certificate of Palestine Board of Higher Studies, provided that the conditions as to the grouping of subjects for the Matricn. Examn. are observed, and 5 credits or their equivalent have been obtained.

#### *Special Regulations for Entrance to Faculties*

*Arts or Theology* Candidates must have satisfied the examiners in Latin as a principal or subsidiary subject in the examns. referred to under (a) above and have obtained a credit mark in Latin in the examns. referred to under (b) above.

For the First Year Examn. for the degree of B A., two languages, one of which must be an ancient language, are required, and the First Year courses in Latin, Greek and French assume a knowledge of the lang. in each case up to Matricn. standard.

*Science.* Candidates must pass in 5 subjects, one being chosen from each of the following groups : (a) Modern Hist., English. (b) A foreign lang., ancient or modern. (c) Maths. (d) Physics, Chem., Biol. (e) Latin, Greek, French, German, Italian, Spanish, Ancient Hist., Geog., Botany, Religious Knowledge (incl. Gk. Testament), or any of the subjects in (a), (b), (d) not already offered.

#### COLLEGE OF MEDICINE

The Univ. holds no matricn. examn. for this Coll. (the Faculty of Med.), but recognizes School Certif. and other matricn. examns. if certain subjects are passed in the prescribed manner, and at not more than two sittings. The subjects include English, Maths., an ancient language, a modern language, and a fifth subject to be chosen from a list of 15. Credits must be obtained in English, Maths. and in two out of the other three subjects. Further particulars from the Dean.

#### *Exempting Examinations*

*Great Britain and Ireland*—Matricn. in the Fac. of Med. of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State, provided that the subjects include those required in the Fac. of Med. of this Univ. and by the General Medical Council for registration of medical students ; or a degree in Arts or Science of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State.

*Dominions and Colonies*—Matricn. in the Fac. of Med. of any Univ. in the British Crown Colonies or Dominions, provided that the examn. passed satisfies the General Medical Council for registration of medical students ; or a degree in Arts or Science of any Univ. in the Dominions or British Crown Colonies.

*India and Malaya*—Students from India and the Malay States may be accepted for matricn. if they have passed certain approved examns. in those countries ; copies of the regulations for such students are obtainable from the Dean of the College.

*Foreign Students*—A degree in Arts or Science of any approved University.

ARMSTRONG COLLEGE.

There is no Matriculation Examn held by the Univ. for this College.

*Exempting Examinations*

*Great Britain and Ireland*—Candidates for admission must hold the certificate of one of the following bodies :

(a) Nos. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15, 17, 20, provided candidates show either (i.) Passes in 5 subjects *with credit* at one and the same examn., or (ii.) Passes in 6 subjects at one and the same examn., four of them *with credit*, or (iii.) Passes in 6 subjects *with credit* at not more than two examns. or (iv.) Passes in 7 subjects, of which five are *with credit* at not more than two examns. Subjects approved include Religious Knowledge, English, Ancient Hist., Mod. Hist., Latin, Greek, French, German, other mod. langs. specially sanctioned, Maths., Addnl. Maths., Mechs., Chem -with-Physics, Chem., Physics, Bot., Zool., Biol., Geog., Music, Art, Geometrical and Engineering Drawing.

(b) Nos. 1, 2, 3, 6. Candidates must show either (i.) Passes in 5 subjects at one and the same examn., or (ii.) Passes in 6 subjects at not more than two examns.

(c) Nos 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a).

(d) No. 22. Same conditions as under (b) above.

*Foreign and Colonial*—Foreign or Colonial students must produce evidence that they have passed in their own country an examn. of the requisite standard, and in approximately the same subjects as would have been required had they taken one of the recognized examns. ; and further, in the case of foreign students, that they have sufficient proficiency in English to enable them to follow a course of study with profit.

*India*—For Indian students no qualification lower than that of the Intermediate Examn. of an Indian Univ. will be considered, except that holders of the Diploma of the Roorkee College will be considered on their merits. Candidates proposing to proceed to a degree in Applied Sc. (Civil, Mech., Marine or Elect. Eng., Naval Arch., Mining or Metall.), who present the Intern. Certif. of an Indian Univ. must have completed that examn. in Maths., Physics and Chem. All applications from Indian students must be made through the High Commissioner for India, Education Dept., India House, Aldwych, London, W.C.2.

*Special Exemptions*

(i) Candidates educated chiefly in Scotland holding such qualifications as would admit them to a faculty in a Scottish Univ. will be admitted to the corresponding faculty in the College.

(ii) Candidates proposing to read for a degree in Applied Science and producing satisfactory evidence that they have been engaged in technical pursuits for a period of two years approximately will be submitted to a special examn. instead of one of those mentioned above. This examn. will include English, French or German, Elem. Maths., and two other subjects. Details from the Registrar.

(iii) Candidates of more than 23 years of age whose native language

is English may be admitted on producing satisfactory evidence of educational attainments.

(iv) In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements.

*Special Regulations for Entrance to Faculties*

*Arts* (except Architecture). Candidates must pass in Latin.

*Architecture*. Candidates for a degree in Architecture must have passed with credit in Maths. under (a) above, or in Maths. under (b) or (d) above.

*Science and Applied Science*. Candidates must have passed with credit in Maths. under (a) above, or have passed in Maths. under (b) or (d) above.

### LONDON

The University conducts three examns. qualifying for matriculation

- (1) The Matriculation Examn. ;
- (2) The General School Examn.
- (3) The Special University Entrance Examn.

(1) Three times a year in London, and twice a year in certain Provincial centres, the University holds a Matriculation Examn. open to all persons of 16 years of age and upwards. To pass, a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following : (a) Latin, (b) Greek, (c) Botany (d) Chem., (e) Heat, Light, and Sound, (f) Mech., (g) Elect. and Magnetism, (h) General Biol., (j) French, (k) German, (l) Italian, (m) Russian, (n) Spanish, (o) Welsh, (p) New Testament Greek, (q) any other approved language, (r) History—Roman, or Greek, or English, or European, or of the British Empire, (s) Geog., (t) Logic, (u) Drawing—geometrical and mechanical, (v) Maths.—more advanced, (w) Zool. (x) Geol., (y) Music—theory, (z) Econ., (aa) Religious Knowledge. One of the 8 subjects (a) to (h) must be included, and one of the subjects offered must be a lang. other than English. Candidates may present two special oriental langs. under certain conditions. At the Intermediate Examn. in Arts it is compulsory to offer (a) or (b), whether taken at the Matricn. examn. or not. Law students are advised to offer (a) and English History.

This examn. may also be held in any of the British Dominions or Colonies, and certain Protectorates and Mandated Territories.

(2) The Examinations for School Certificates are held only in Schools inspected by the Univ. or under other approved inspection ; the course of study in the school must also be approved. The examns. are of grades : I. Higher, II. General ; for I. the Higher School Certif. and for II. the General School Certif. respectively. These Certif. are not awarded until the pupil leaves school. The examn. fees are from £1 to £3. At the General candidates may qualify for exemption from Matricn., and at the Higher for exemption from Interim Examns. (Arts Sci., Comm., Econ., Engin., First Medical), extra fees being payable. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and

a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn is entitled on payment of the registration fee of 17s 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age

(3) The Special University Entrance Examination is open to.— I. Persons aged 19 yrs. or over holding (a) Certifs. of Matricn. in Colonial and Dominion Univs., or (b) Indian or Foreign Certifs. from an academic or other educational authority which in the opinion of the Principal indicate a standard equivalent in their own country to that required for matricn. in this Univ. The *Palestine Matricn. Certif* is included under this head. II. Persons over 23 yrs. of age The Examn is usually held in March, May, Sept., and Dec., and consists of 4 or 5 subjects, of which English and either Maths. or Logic are compulsory. English-speaking candidates are required to offer a lang other than English. No candidate is admissible unless it is his *bona fide* intention to proceed to a degree or diploma in the Univ. All candidates must attend in London for both the written part (which lasts 2 days) and the oral part of the examn. No syllabus is published. The fee is 5 gs.

Full information regarding all these examns may be obtained from the Secretary, Matriculation and School Examinations Council, University of London.

#### *Exempting Qualifications*

*Exemption* may be obtained by (1) graduates of any of the Univs of the U.K. and the following overseas Univs. In Canada—Acadia, Alb., Br. Columbia, Dal., King's, Laval, McGill, McMaster (B A. only), Manito., Queen's, Saskatchewan, Tor., Vict. (Tor.), W. Ontario; Australasia—Adel., Melb., Qld., Syd., Tas., W.A. (Arts, Sc, Agr, Eng.), N.Z.; S. Africa—Cape, Cape Town, S Afr., Stell., Witw.; India—Agra, Aligarh, All., Andhra, Benares, Bom. (L.M. and S also recognized), Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Patna, Rang.; Hong-Kong; certain Univs. in countries outside the British Empire; (2) subject to certain conditions, among them the passing with credit in five subjects at one and the same examn., persons who have passed the examns numbered 7, 8 (b), 9, 10, 11, 12, 13, 14 (a); (3) subject to other conditions persons who have passed examns. 2, 6, 8 (a), 15.

*Dominions*—(4) Persons who hold the Adelaide Matriculation (Senior Public) Certificate, Melbourne School Leaving Certificate, Western Australia School Leaving Certificate, Secondary School Senior Certificate of the Department of Public Education, Cape of Good Hope, Transvaal Secondary School Certificate, provided that the student has passed at one and the same examn. in English, Maths., and three other prescribed subjects, of which one must be Latin or Greek (Cape of Good Hope—Latin) or a Science.

*Palestine*—(5) Persons who have passed the Palestine Matricn. Certificate. See under Special Entrance Examn. above.

#### OXFORD

Admission to the Univ. ("Matriculation") is without respect of sex, age, nationality, or creed, and follows upon admission to a Society,

*i.e.* a College or Hall or Society. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer of the Society to which admission is desired, *e.g.* Balliol—The Tutor for Admissions; St. Catherine's Society, 74 High St.—The Rev. the Censor; in other cases—The head of the Society (*See* Colleges, etc. under Oxford Univ. above) It should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College are desired. Except for certain classes of persons the passing of an entrance examn. is a condition of admission to matricn.

The Colleges and Halls and Societies require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is necessarily included.

*Responsions* comprises: I. (a) Latin, (b) Greek; II (a) Holy Scripture, (b) English, (c) French, (d) German, (e) Italian, (f) Spanish; III. (a) Maths., (b) Natural Science. To pass, a candidate must have satisfied the examiners *either* in both subjects from Group I. and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn. and in a fourth at a subsequent examn.

#### *Exempting Examinations*

*Great Britain and Ireland, Affiliated Students, etc*—Exemption may be obtained: A by persons accepted for admission as Service Students or Imperial Forest Service Students or Special Students or Affiliated Colonial, Indian, or Foreign Senior or Junior Students, or as candidates for the Degree of B.C.L. under certain conditions, or as Advanced Students, or as candidates for the Degree of B.Litt or of B.Sc., or who hold a degree at another Univ., such degree and such Univ. having been approved by the Hebdomadal Council, or as Students of Mature Years recommended by the Delegates for Extra-mural Studies under certain conditions

B subject, *inter alia*, to passing in 2 of the languages, Latin, Greek, French, German, Italian, Spanish, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. (7, 8, or 13) or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 2, 3, 4, 5, 6, 15, 17, or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or Bristol.

*Dominions and Colonies*—Exemption may be granted to any person who has obtained (1) a certificate of having passed either (a) the matriculation examn. of the Joint Board of the South African Universities, or (b) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif.) of the Cape Province, provided that it shows that he has obtained at least 60 p.c. in each of two of the

languages Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one ; or

(2) A certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages, of which Latin or Greek must be one :

Univ. of McGill Matricn. , or First Year in B.A. course ; Ontario Educn. Department's Middle School Examn. ; Univ. of Toronto Senior Matricn., or First Year, Council of Higher Education, Newfoundland, Sen. Matricn. ; Brit. Columbia Sen. Matricn., Brit. Columbia Jun. Matricn. (60 per cent in each of the two cases) ;

Univ. of Adelaide Public (Leaving) ; Univ. of Melbourne School Leaving (Class B) ; Univ. of Tasmania Public Leaving ; Univ. of W. Australia School Leaving ; New South Wales Educn. Department's Leaving Certif. ; Univ. of Sydney Matricn. (the two necessary languages at the Higher Standard) , Univ. of Queensland Sen. Publ. Examn. ;

New Zealand Matricn. or Entrance Scholarship ;

Univ. of Malta Matriculation ;

Univ. of Hong-Kong Senior Local ;

*India*—Exemption may be granted to any person who has obtained the degree of B.A. or B.Sc. at an approved Indian Univ., provided that his course included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

*Palestine*—Exemption will be granted to any Palestinian student holding a scholarship from his Govt. to enable him to pursue a course of study at the Univ., provided he holds the Matricn. Certif. of the Palestine Board of Higher Studies, showing that he passed with credit in English (Syllabus A), and in one of the languages, Latin, Greek, French, German, Arabic, or Hebrew (Syllabus A).

*Foreign Students*—Exemption may be granted to any person who has obtained a certificate or certificates qualifying him for admission to a univ. in Austria, Belgium, Czecho-Slovakia, Denmark, Finland, France, Germany, Holland, Hungary, Italy, Norway, Poland, Sweden, Switzerland, or Yugoslavia, or a Certificate of Part I. of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows that he has satisfied the examiners in either Latin or Greek.

*Admission to Privileged Standing: "Junior" and "Senior" Students.* I. *Universities other than Indian*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any examns. proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (b) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ., or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities*.—(a) Any student who shall have pursued at



his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 Latin or Greek or French or German must be one (b) Any student who shall have pursued, at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. *A Junior Student* : (a) may reckon his 1st term as his 4th ; (b) is not required to pass Responsions ; (c) is entitled to supplicate for Degree of B.A. after having resided 6 terms and passed the 1st Public Examn. and either (1) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "ægrotat" ; or (2) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I., or in the Final School of Agric. or of Forestry ; or (3) obtained Honours in the 1st Public Examn., and subsequently passed the 2nd Public Examn. ; or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List

IV. *Senior Students*. (1) Any person who has obtained a degree at a Univ. in the British Dominions or Colonies or in India or in Gt. Britain and Northern Ireland, or at a foreign Univ., such degree and such Univ. having been approved by the Hebdomadal Council, may be admitted to the status and privileges of a Senior Student ; provided that he shall have pursued at that Univ., or, should the Hebdomadal Council in his case so approve, at more than one Univ., a course of study extending over 3 yrs. at the least.

(2) Any medical student of a Univ. in the British Dominions or Colonies or in Gt. Britain and Northern Ireland may be admitted to the status and privileges of a Senior Student ; provided that the Univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that Univ., or, should the Hebdomadal Council in his case so approve, at more than one Univ., for at least 3 yrs. a course of study leading to a degree in Medicine and shall have passed all examns. incidental to that portion of the course.

A Senior Student : (a) may reckon his 1st term as his 4th ; (b) is not required to pass Responsions or any part of the 1st Public Examn. or any Preliminary or Previous Examn. of the 2nd Public Examn. ; (c) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having (i.)—as III. (c) (1) above ; or (ii.)—as III. (c) (4) above ; or (iii.) satisfied the Examiners in the Final Honour School of Chemistry, Part I ; or III. (iv.) above, passed the Prel. Examn. in Agriculture or Forestry and also the Final Examn. in Agriculture or Forestry.

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Members of the following Affiliated Colleges may claim the status of Affiliated Junior Student if they have pursued a 2 yrs.' course of study at their Coll. and taken Honours in an examn. thereon: St David's Coll., Lampeter (3 yrs' course with Honours may give admission to status of Senr. student); Univ. Colls., Nottingham, Southampton, Exeter; Exeter Diocesan Training Coll. The privileges of an Affiliated Junior Student are similar to but not identically the same as those of a "Junior Student."

*Incorporation.* Admission of members of the Univs. of Cambridge and Dublin to incorporation. See p. 224.

### READING

The University holds no Matriculation Examination.

#### *Exempting Examinations*

Matriculation, minimum age 17, is open to:

(a) Graduates of Univs. in the United Kingdom or other approved Univs.;

(b) Persons who have passed or obtained exemption from Nos. 3 or 6, or have satisfied the conditions for such exemption;

(c) Persons who, being at least 25 years of age, have passed a special examn. held by the Univ. "for approved candidates of mature years." In exceptional circumstances the Senate may accept other evidence of previous education and attainments.

### WALES

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not passed an equivalent examn., is held at each of these Colleges about the end of Jan. and the end of June each year. The subjects are (a) English, (b) Welsh Lang. and Lit., (c) Latin, (d) Greek, (e) Welsh, (f) French, German or other approved language, (g) History, (h) Scripture, (i) Music, (j) Art, (k) Maths., (l) Geog., (m) Mechanics, (n) Physics, (o) Chem., (p) Bot., (q) Biol., (r) Geol., (s) General Sci. A candidate must pass at one and the same examn. in 5 subjects, including (a) or (b), one of (c), (d), (k), at least one language in addition to English or Welsh Lang. and Lit., and either (h) or one of (l) to (s). No candidate may offer more than one of (k), (i), (j), or both (p) and (q), or both (l) and (r), or both (s) and one of (m) to (r). A candidate who offers more than two languages in addition to (a) or (b) must offer (k) or one of (m) to (s).

#### *Exempting Examinations*

*Great Britain and Ireland*—(a) Nos. 3, 6, 16, 19, 21.

(b) 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 13, 14 (b), 15 (Higher Grade), 17, 20, 22, with credit at one and the same examn. in each of the subjects required by the Welsh Matricn. Regulations.

*Note.* The certificates of candidates desiring exemption must in general comply with the conditions of exemption in force at the time of the award of the certificate.

*Dominions and Foreign*—Candidates who have qualified by examn. for a degree of an approved Univ. or College, or have passed the Matricn.

examn. of the South African Univ. or of the Swiss Univs., or the secondary school certif. examn. of the Transvaal or Cape Province Education Dept. in the subjects required by the Univ. matricn. regulations, or, if certified by a constituent Coll. as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Sci. of an approved Indian Univ., may matriculate without further examn.

*Palestine*—The Palestine Matriculation Certificate is accepted for exemption provided candidates have passed with credit at one and the same time in the subjects required for the Matricn. Examn. of the Univ., and provided that the Pass with credit has been obtained in the A Syllabus of the Palestine Matricn. Examn.

#### *Special Exemptions*

Candidates of 23 or more years of age may be exempted on the special recommendation of a constituent College.

Candidates of not less than 20 years of age who have been full-time pupils of an approved adult school during not less than 2 yrs. may pass the matricn. examn. in 4 subjects provided they satisfy the authorities of the adult school in a fifth subject.

Candidates for Diplomas of the constituent Colleges who are not less than 20 yrs. of age and who have been for at least 1 yr. full-time students at a constituent Coll. may pass the matricn. examn. in 4 subjects provided that they satisfy the Coll. in a fifth subject.

### SCOTTISH UNIVERSITIES

#### *Qualifications for admission to degree courses in Scottish Universities*

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects: (i.) English (including Literature and History); (ii.) Maths., Dynamics, Physical Sci.; (iii.) Latin, Greek, French, German, Italian, Spanish, Gaelic; (iv.) Nat. Sci., Art, Music, Applied Sci., provided (a) the passes must include one from each of the groups ii. and iii.; (b) unless they include three on the higher standard the Certificate must show either (1) passes in Latin (or Greek) and in Maths., or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths., and all the four passes must be in subjects taken from groups (i.), (ii.), and (iii.).

II. Other certificates affording evidence of a satisfactory secondary education on lines above specified.

III. Preliminary Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each of the first 3 groups: (i.) as under Clause I.; (ii.) Maths., Physical Sci.; (iii.) as under Clause I., or other approved language; (iv.) Nat. Sci. (any 2 of Chem., Bot., Zool., Geog.). Proviso (b) applies, and candidates are ordinarily required to reach the pass standard in English. The only subjects in this examination in which lower standard passes can be obtained are Latin, Greek, and Maths. The examn. in Nat. Sci. is held only in Sept. Candidates submitting both Physical and Nat. Sci. may select questions in the Chemical Section of one only of these branches.

The holder of a degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. examination.

### *Exempting Examinations*

*Great Britain and Ireland*—A. Nos 1, 2, 3, and any School or Local Examn. conducted under the auspices of the Univs of Oxford or Cambridge which are accepted as exempting from (1) and (2) respectively.

B. Such qualifications as would admit a candidate to the Faculty of Arts or the Faculty of Science in a Univ. in England, Wales, or Ireland, provided he has been educated chiefly in one of those countries.

*Dominions and Colonies*—Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided their knowledge of English is sufficient to enable them to follow the courses of instruction with profit. Those whose native language is other than English are required to pass an examn., oral and written, in English, including set books.

*India*—Students from India are subject to the condition that they have obtained a first class in an Intermediate Examn. in Arts or Science in a recognized Indian Univ., and have at some stage of their course passed in English and Maths. or Science.

*Palestine*—The Matriculation Certificate of the Dept. of Education of the Government of Palestine will be accepted, provided the candidate has passed with credit in English according to Syllabus A, and has obtained a pass with distinction in one subject at least and passes with credit in three other subjects, one of which may be English.

The Intermediate Examn. for the Arts and Sci. Diploma of the Palestine Board of Higher Studies will be accepted.

*Foreign*—Certifs. entitling the holder to enter upon a regular course of study leading to a degree in Arts, Pure Sci., or Med. in any of the Univs. or Colls. approved by the Assocn. of American Univs. (see Appendix XXVI.) are recognized for exemption from the Prelim. examn.

The B. ès L. and B. ès Sc. and similar "certifs. of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country," are accepted subject to the above-mentioned conditions as to knowledge of the English language. Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy, and, if including Arabic, English, and Maths., the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examination.

*N.B.*—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

A Certificate submitted as proof of title to admission from Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy,

Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Application to the Secretary of the Scottish Universities Entrance Board, 81 North Street, St. Andrews, should be made by all overseas students seeking admission to Scottish Univs.

#### *Special Exemptions*

The Board has a general dispensing power in regard to applicants of not less than 21 yrs. of age who satisfy it as to their fitness.

Full information as to the regulations for examinations and for exemptions can be obtained from the Secretary, Scottish Universities Entrance Board, 81 North Street, St. Andrews.

#### *Exemption from Courses in Medicine and Surgery*

Subject to certain conditions 3 yrs. or 9 terms of medical study may be spent in attendance on courses of instruction in the subjects of the curriculum at any Univ. of the U.K., or at such Dominion, Indian, Colonial or foreign Univ., or at such medical schools, or under such teachers as may be recognized for the purpose.

#### *Special Regulations for Entrance to Classes*

**Aberdeen.** In the case of Greek, Hebrew, Arabic, Syriac, and Mathematics, a student shall be admitted to attendance on the classes qualifying for graduation if he has the subject of the class as one of the subjects either of his Group Leaving Certificate or of the University Preliminary Examination. Where a student desires to attend a course qualifying for graduation and does not satisfy the above condition, he shall intimate to the Secretary to the University of Aberdeen not later than one week before the commencement of the class, and a written examination or other test will be provided to determine his fitness to attend the class.

**Edinburgh.** Certain preliminary passes are required for entrance to certain classes. If a student intends to take a curriculum containing a class which requires a special qualification, it is desirable that he should have included this qualification in his Leaving Certif. (or its equivalent), but failing this he may take the subject in the Univ. Preliminary Examn.

#### *Preliminary Qualifications Necessary for Attendance at Certain Classes*

**Arts and Commerce.** Ordinary classes in Latin, Greek, French, German, Italian, Spanish, Celtic.—A pass in the lang. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Second Ordinary, Intermediate Honours, and Honours Classes in English, and Interm. and Hons. Classes in French, Italian, Spanish.—A pass in Latin on at least the lower standard in the Leaving Certif. (on the higher for Hons. English), or some equivalent evidence of proficiency.

**Sanskrit.**—A knowledge of the Devanagari characters and the mode of transcription described in Perry's *Sanskrit Primer*.

**Hebrew.**—A knowledge of Hebrew grammar (as in Davidson's *Intro-*

*ductory Hebrew Grammar*), and ability to read simple prose, such as the Book of Ruth, or the narratives of Genesis.

Arabic.—A knowledge of Arabic grammar, and ability to read a simple Arabic text.

Music.—A pass in Music in the Leaving Certif., or some equivalent evidence of proficiency.

Maths., Natural Philos. (Physics).—A pass in Maths. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Chemistry.—A pass in an Admission Examn., unless the student has a pass in Physical Sci. (incl. Chem.) in the Leaving Certif., or other evidence of proficiency accepted as equivalent.

The Ordinary Classes in Ancient (Gk. and Roman) Hist., Gen. European Hist., Ecclesiastical Hist., and Roman Law, and Hons. Classes in British Hist., Constitutional Law and Const. Hist., and Scottish Hist.—A pass in Latin on at least the lower standard of the Leaving Certif., or some equivalent evidence of proficiency.

Accounting and Business Method.—A pass in an Admission Examn. in Book-keeping (L. C. Cropper, *Book-keeping and Accounts*, pp. 1-132), or evidence of a sufficient practical training in an office or otherwise.

Science. Maths., Technical Maths., Physics (Nat. Philos.), Chem.—As for Arts.

Technical Maths., Engineering.—A pass in Higher Maths. in the Leaving Certif. (or its equivalent).

As Maths. or Physics is a class included in every type of curriculum for the Ordinary degree in the Dept. of Pure Sci., Higher Maths. should be included in the Leaving Certif. (or its equivalent) of every student who enters the Univ. with a view to this degree.

Similarly, Tech. Maths. or Physics is included in the curriculum for a degree in the Depts. of Engin., Mining, Tech. Chem., Agric., and Forestry.

Law. Civil Law.—A pass in Lower Latin in the Leaving Certif. or some evidence of a sufficient knowledge of the language.

Medicine. A student before commencing the study of Med. must have passed (1) an examn. in Gen. Knowledge recognized by the Entrance Board,\* and (2) the Pre-Registration Examn. in Physics and Chem. of the Univ. or a recognized equivalent examn.†

Students taking Examn. (1) in a form which includes Chem. and Physics as an essential part of the examn. must take a separate Pre-Registration Examn. in these two subjects subsequently.

#### *Recognition of Institutions and Teachers Outside the United Kingdom*

(a) For exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree: the following Univs.—Alb., Brit. Col., Dal., McGill, Manit., Queen's (Kingston), Tor., Adel., Melb., Syd., N.Z.,

\* Any student holding a certif. admitting him to an English, Irish, or Welsh Univ. will be exempted by the Entrance Bd. from Examn. (1).

† Applications for exemption should be addressed to the Dean of the Faculty of Medicine.

S Africa, All., Bom., Calc., Dacca, Mad., Panj., Patna, Hong-Kong, Paris, Tokyo, Osaka, Sendai, and such other Univs. as the Univ. Court may from time to time approve; graduates of Univs. and Colls. approved by the Assn. of American Univs

(b) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(c) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad., v. also (f).

(d) For 2 of the 3 yrs.' study for LL.B.: McGill Univ., Madras Law Coll., Law Coll., Trivandrum, Ripon Coll., Calc., Rangoon Univ.

(e) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(f) For admission of graduates from these instns. to study for the Ph.D. degree (General Recognition is also granted to them in terms of the various Graduation Ordinances): the following Univs.—Dal., King's Coll. (N.S.), Laval, McG., Manit., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W. Aust., N.Z., Cape Town, S. Africa; all Colleges affiliated to these Univs.; Univs. and Colls. approved by the Assn. of American Univs.

**Glasgow.** I. For the following classes, namely: Latin, Greek, French, German, Italian, Spanish, Russian, Hebrew, Arabic, Celtic (ordinary in each subject), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in the subject of the class on the Higher Standard (where different grades exist), or that he has diligently attended in a previous session a non-qualifying course in that subject.

II. For the following classes, namely: English (Higher Ordinary or Hons.), French (Higher Ord. or Hons.), German (Higher Ord. or Hons.), Italian (Higher Ord. or Hons.), Spanish (Higher Ord. or Hons.), Hebrew (Higher Ord.), Celtic (Hons.), Hist. (Higher), Hist. (Hons.), Scottish Hist. and Lit. (Hons.), Constitutional Law and Hist. (Higher Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or the Lower Standard.

III. For the following classes, namely: Maths. (Ord.), Maths. (First Course for Engineers), Nat. Philos. (Ord.), Applied Physics (Ord.), Astronomy (Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard, or that he has diligently attended a non-qualifying course in that subject.

IV. For the following classes, namely: Logic (Hons.), Moral Philosophy (Hons.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence

that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or Lower Standard, or in Maths. on the Higher Standard.

V. For the following class, namely : Civil (or Roman) Law, attendance shall not normally qualify for graduation unless before admission to the class the student has graduated in Arts, or has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin on the Higher Standard.

VI. For the following classes, namely . Hebrew (Hons ), New Testament Greek (Biblical Criticism, Junior), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Greek on the Higher or Lower Standard, or that he has diligently attended a non-qualifying class in Greek.

VII. For the following class, namely, Hebrew (Junior), attendance shall not normally qualify for graduation unless before admission to the class the student produces evidence to the Head of the Dept. that he possesses a sufficient knowledge of Elementary Hebrew Grammar.

VIII. For the following class, viz., Music (ordinary), attendance shall not normally qualify for graduation unless before admission to the class the student has (a) passed in Music on the higher standard in the Leaving Certif. Examn., or (b) attended and satisfactorily performed the work of the elem. class.

In cases I.-VI. and VIII. either the Head of the Dept. or the Faculty concerned shall have power to accept such other evidence of fitness to profit by attendance on the class as may be deemed sufficient.

**St. Andrews.** In the Faculty of Arts, students who propose to attend a graduating course in Latin or Greek, or Hebrew, or French, or German, must produce evidence of having passed the Leaving Certificate Examn. in the language on the Higher Standard or some equivalent qualification, or must (in the case of Latin and Greek) have attended a Junior Class in the Univ. and duly performed the work of that class for one session. Students who wish to attend a graduating course in Maths., Applied Maths., or Nat. Philos. must show that they have passed the Leaving Certif. in Maths. on the Higher Standard or obtained some equivalent qualification.

In the Faculty of Science, the above rule applies to the classes of Maths., Applied Maths. and Nat. Philosophy.

#### BELFAST

The Matriculation Examn. comprises English, Mathematics, and 3 of the following : (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish, (g) Modern History, (h) Physics or Mechanics, (j) Geog., (k) Chem., (l) Bot., (m) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (n) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing; for Commerce—(o) Elementary Economics, and (p) Accounting; for Faculty of Arts (q) Music. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or



Spanish ; for Applied Science or Technology—one of the languages (a)-(f).; for Faculty of Law—Latin. Candidates for Faculty of Arts may, under certain conditions, take Latin or Greek instead of Maths.

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

### *Exempting Examinations*

Candidates who have passed any of the following examns. are admitted as matriculated students, provided that if they have not passed in all the subjects required by the Univ. for matriculation in the respective faculties they shall be required to pass in the additional subjects at one and the same Matricn. Examn

*Great Britain and Ireland*—A. 1, 2, 3, 4, 5, 6, 8 (a),\* 8 (b),\* 9 (a),\* 9 (b),\* 10 (a),\* 10 (b)\* (provided in the case of 8 (b), 9 (b) and 10 (b) that at the same or any separate examns. the candidate has passed in 5 subjects recognized by the Univ. for matriculation and obtained credit in at least four), 11 (b), 13, 15 (subject to certain conditions), 16, 17, 19, 20.

B. Graduation examn. of a British Univ.

*Dominions*—The Matricn. Examn. of the Joint Matriculation Board of the Univs. of South Africa ; the Matricn. Examn. of the Univ. of New Zealand.

The Secondary School Certificate of the Transvaal Education Dept. provided that the student has passed in the subjects required by the faculty he desires to enter and that he has passed with credit in at least 3 of these subjects.

*India*—The Intermediate Examn. of the following Indian Univs. Aligarh, Allahabad, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Panjab, Patna, Rangoon.

*Palestine*—The Matricn. Examn. of the Palestine Board of Higher Studies, provided that the student has passed with distinction in English.

### *Special Exemptions*

Students of mature age (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case.

### *Special Regulations for Entrance to Faculties*

*Arts.* Candidates for the Faculty of Arts who intend to enter an Honours School must pass in Greek or Latin at Matricn

*Medicine.* Candidates must have passed an examn. in Latin of at

\* Candidates who have partially fulfilled the conditions of these examns. and who wish to offer a combination of the results of these examns. as a qualification for matricn. or to combine 8 (b), 9 (b), or 10 (b) with the Matricn. Examn. should forward their application to the Secretary for consideration.

Candidates who have passed in Physics and Chem. as one subject in 8 (b) will be allowed to count this as two out of five, provided they have passed in an additional subject.

least Junior Certificate (Northern Ireland) Standard, and a pre-registration examination in Physics and Chem. recognized by the General Medical Council.

*Engineering.* There is a special Matricn. Examn. comprising English, Maths., Further Maths, Greek or Latin or French or German or Italian or Spanish, Physics or Chem., Mod. Hist. or Geography.

### DUBLIN

*Aris.* The Matricn. Examn. held six times a year, comprises English Composition, Maths., English Hist. and Modern Geog., Latin, and one of . Greek, French, German, Irish, Italian, Spanish.

*Science.* The Matricn. Examn. comprises English Composition, Maths., French or German, and one other language.

### *Exempting Examinations*

*Great Britain and Ireland.* Candidates who have passed the Examn. for Leaving Certificates held by the Dept. of Education in the Irish Free State, or the Examn. for Senior Certificates held by the Ministry of Education in Northern Ireland, or any other examn. including 6 (a), 6 (b), 7 (a), 7 (b), 8 (a), 8 (b), 9 (a), 9 (b), 10 (a), 10 (b), regarded by the Senior Lecturer as equivalent thereto, are qualified for Entrance to Trinity Coll. on passing, if required to do so by the Senior Lecturer, a further examn. in those subjects, if any, of the Trinity Coll. Entrance Examn. which are not included in those which they have already passed.

*South Africa.* A student who has passed the Matricn. Examn. of any S. African Univ. including English, Maths, Latin, and one other approved language is admitted without further examn. and, if a Med. student, is excused the special Prelim. Examn. in Arts.

### *Admission to Advanced Standing*

Special regulations provide for the grant of credit for previous academic attainments at the Univs. of Oxford and Cambridge while students or graduates of the following Univs., Aberdeen, Belfast, Birmingham, Bristol, Edinburgh, Glasgow, Leeds, Liverpool, London, Manchester, St. Andrews, Sheffield, Wales, and the National Univ. of Ireland, may be allowed credit *pro tanto* for the first two years in the examn. held at their expiration; but every such student must keep at least 2 yrs. at Trinity Coll. : and further, no medical degree can be taken without at least 3 yrs.' attendance.

*Dominions* (other than S. Africa), *India and U.S.A.* Certain privileges in Arts are granted to approved students of the following Univs. and Colls. : Adel., All., Bom., Cal., Dacca, Lucknow, McGill (Montreal), Nagpur, New Brun., N. Zeal., Panj., Patna, Rangoon, Syd., Tas., Tor., King's Coll. (Halifax, N.S.), and Univs. and Colls. in the U.S.A. approved by the Assn. of American Univs.

*South Africa.* Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examn. in these last two subjects.

A student who has passed the Intern. Examn. of any S. African

Univ. is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Intern. Examn.

A student who has passed the B.A. examn. of any S African Univ. is allowed credit for the first two collegiate years and for the Final Freshman examn.

In keeping terms students from S. Africa may present Dutch as their language

*Note.* Students in Medicine at any "Grade A" Univ., U.S.A., or at any Dominion Univ., may make application to the Dean of the School of Physic for recognition of work done by them. They will be treated according to the general lines adopted in the case of S African students. No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

For further information application should be made to the Registrar of the School of Physic.

### NATIONAL UNIVERSITY OF IRELAND

The Matricn. Examn., held twice a year, comprises six groups of subjects: (a) Irish, (b) Latin or Greek, (c) any modern lang. approved by the Senate, (d) English, (e) Maths., (f) Latin, Greek, any modern language approved by the Senate, Hist., Geog., Applied Maths. or Physics, Chem., Agric., Commerce, Music, Bot., and (for women candidates only) Physiol. and Hygiene. Candidates must pass in 5 subjects, but may present 6, if they so desire.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group (a). Others may present in lieu of Irish either a second language or a second Science subject; they will be expected to attend a course in Irish Lit. and Hist. before obtaining a degree in the Univ.

#### *Exempting Examinations*

Candidates who have passed in not less than 4 of the subjects prescribed for Matricn. at any of the following examns. may, provided such examn. has been passed as a whole, complete their matricn. by passing the fifth supplementary subject at the Matricn. Examn. of the Univ.

A. *Great Britain and Ireland*—Passes in the Senior Grade of Intermediate Board or the Leaving Certificate Examn. in any of the subjects recognized for matricn. are accepted as equivalent to passes in these subjects at the Matricn. Examn., even though the former examn. was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn.: the examns. numbered 1, 2 (Parts I. and II.), 3, 4 (except in Maths.), 5, 6, 8 (a), 9, 10, 15 (Higher), 16, 17.

*Dominions*—The Senior Public Examns. of Adelaide and Queensland, and the Matricn. Examns. of Sydney, Melbourne, Queensland, and New Zealand, and of the Matricn. Board of S. Africa. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are

recognized only in combination with an Intermediate Examn. in Arts or Science.

*Foreign*—The Jaffa Gymnasium Maturité. The Matricn Certif of the Univs. of Switzerland, with (a) Latin and Gk., Mod. Langs. and Maths. or Nat. Sci, (b) with Mod. Langs., Maths. or Nat. Sci. and with an endorsement that Latin has been taken at a subsequent date

B. Graduation in Arts or Science in any Univ. of the Dominions and Colonies (except India).

*Special Regulations for Entrance to Faculties*

Students entering for degrees in (1) Arts, Philosophy, and Celtic Studies, (2) Law, (3) Med. or Dentistry, (4) Science, Commerce, Agric., Dairy Science, (5) Engin., must take: (1) subjects in the Matricn. groups (a), (b), (d), (e), (f); (2) Latin, and subjects in (a), (d), (e), (f); (3) Latin, (a), (d), (e), and a fifth subject, but if already registered by the General Medical Council, students may take the subjects prescribed for any other faculty; (4) or (5) one from each of (a), (d), (e), and two others from (f).

## XXIII

POST-GRADUATE SCHOLARSHIPS, ETC., AND GRANTS  
FOR ADVANCED STUDY AND RESEARCH

## A. GREAT BRITAIN AND IRELAND

1. General.
2. Adult Education.
3. Agriculture, Veterinary Science, etc.
4. Applied Science and Technology.
5. Architecture (*v.* Art and Archæology).
6. Arts (General).
7. Arts (Special Subjects).
 

Art and Archæology.	Law.
Classics.	Mathematics.
English Literature.	Modern Languages.
Geography.	Music.
History.	Oriental Languages.
History, etc. (British Empire).	Philosophy.
History and Geog. (India).	Psychology ( <i>v.</i> Philosophy).
8. Commerce.
9. Economics and Sociology
10. Education.
11. Engineering (General).
12. Engineering (Special Branches).
 

Engineering, Electrical.
Engineering, Mechanical ( <i>v.</i> Engin., General).
Mining and Mining Engineering.
Naval Architecture and Marine Engineering.
13. Fisheries and Preservation of Fish.
14. Journalism.
15. Medicine and Surgery (General).
16. Medicine and Surgery (Special Subjects).
 

Anatomy.	Obstetrics and Gynæcology.
Bacteriology.	Pathology.
Bio-Chemistry ( <i>v.</i> 18).	Preventive Medicine.
Cancer.	Tropical Med. and Hygiene.
Diseases of Children.	Tuberculosis.
Neurology.	
17. Science (General).
18. Science (Special Subjects).
 

Bio-Chemistry.	Mathematics.
Biology (Animal Morphology).	Metallurgy.
Botany.	Physics.
Biometrics.	Physiology.
Chemistry.	Zoology.

## 19. Theology.

## B. DOMINIONS

20. General.

23. New Zealand.

21. Canada.

24. South Africa.

22. Australia.

25. India.

## C. MANDATED TERRITORY

26. Palestine.

## D. FOREIGN COUNTRIES

27. Belgium.

31. Jugo-Slavia.

28. France.

32. Spain.

29. Germany.

33. Sweden.

30. Holland.

34. United States of America.

Information as to the provision made by the several Universities and other learned institutions for the promotion of advanced study and research by the offer of scholarships, fellowships, etc., limited to their own graduates or members, will be found under the heading "Scholarships, etc." in the sections of the *Yearbook* relating to those Univs. and institutions. Particulars of other aids to British students for advanced work, not so limited, are given in this Appendix.

The assistance given by way of scholarships, etc., by different types of instn., whether Govts., Univs., scientific societies or separate foundations, will be found by reference to the General Index under their several titles.

The reduction, under the stress of present economic conditions, in the number of available scholarships and of other provision for research, referred to in last year's *Yearbook*, has unfortunately been carried further in the present year.

*Auseful List of International Fellowships for Research* is pubd. by the International Federation of University Women (q v.), price 1s.

## A. GREAT BRITAIN AND IRELAND

## 1. GENERAL

THE BRITISH FEDERATION OF UNIVERSITY WOMEN, Crosby Hall, Cheyne Walk, London, S.W.3. International Residential Scholarship at Crosby Hall, value £100 for 1 yr., for research or other post-graduate work. Applications to be received before the end of Jan. Further particulars from the Secretary.

BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris (V.). *Edward Esmond Scholarship*, at the rate of £100 p.a. for 1 yr. or less, with possible renewal beyond a yr. Open to graduates of British Univs. to attend courses in Paris approved by the Educational Committee of the Institute. Nominations for appointment are made by the Vice-Chancellors of all British Univs. before May 30, to B. S. Townroe, 16 Hanover Square, London, W.1.

CAMBRIDGE UNIVERSITY. *Worts Fund* for investigations in foreign

## APPENDIX XXIII

countries respecting religion, laws, etc., or geographical discovery or antiquarian research therein.

CAMBRIDGE UNIV. : CLARE COLLEGE. Research Studentships, £100 a., not more than two at a time; graduate members of any Univ. may be elected, but preference to members of the College.

CAMBRIDGE UNIV. : EMMANUEL COLLEGE. Research Studentship, maximum value £150 p a. for 2 yrs, with possibility of renewal. Open to a graduate from another Univ. or other qualified student beginning research at Cambridge, with a preference to one who has already done one but not more than 2 yrs.' research. The Studentship may be held by a student already endowed from other sources, if he can show that further assistance is necessary. Applications should reach the Master not later than June 30, and should be supported by two certificates of character, a birth certificate, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College and Commons are assigned to the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

CAMBRIDGE UNIV. : ST. JOHN'S COLLEGE. *Strathcona Research Studentships* in any branch of study. £200 for 1 yr., renewable for 2nd yr. Open to graduates of any Univ, with preference to members of the Coll. Applications to the Senior Tutor.

CAMBRIDGE UNIV. : TRINITY COLLEGE. A Research Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £300 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge. Open to men who have graduated or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor not later than July 1.

CAMBRIDGE UNIV. : GIRTON COLLEGE. *First Girton College Fellowship*, value £300 p.a., awarded to a woman of Univ. training, not necessarily a student of Girton, distinguished in some branch of intellectual work. Nominations hereafter to be made by Coll. for life or term of years at discretion. *Present holder* (for life), Mrs. Arthur Strong (Eugénie Sellers).

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Carnegie Scholarships and Fellowships in History, Economics, Mod. Langs. and Lit., Science and Medicine. Scholarships, £150 p.a. for 2 yrs. with possible extension to 3rd yr. at £175. Fellowships, £250 p.a. plus special expenses allowance, for 2 yrs. with possible extension to 3 yrs. Open to British graduates of Scottish Univs. in at least one of the above, for investigation of some problem or factor of modern civilization. Nominations to be made by a Prof. or other head of Univ. Dept.

**CECIL PEACE PRIZE.** A prize of £100 is offered yearly for an essay on some subject connected with the maintenance of International Peace, and having some bearing on the principles or work of the League of Nations. Open to all graduates, undergraduates, and students of either sex and of any nationality, of any Univ. or Univ. Coll. in Gt. Britain or N. Ireland, under 25 on the last day for submitting essays. Essays must bear a motto reproduced on a sealed envelope attached containing the name of author, address, and statement of date and place of birth. Length of essay not prescribed but 10,000-12,000 words suggested. Subject for 1933: "Is it true that the British Empire is in itself a League of Nations?" Essays must reach the Secretary, Universities Bureau of the British Empire, 88A Gower St., London, W.C.1, on or before Nov. 1, 1933. Further particulars on application.

**THE FELLOWSHIP OF THE BRITISH EMPIRE EXHIBITION,** 3 Temple Gardens, London, E.C.4. The Fellowship is an unincorporated body formed originally to help the Exhn. At the close of the Exhn., with the approval of its President, H.R.H. the Prince of Wales, the Fellowship decided to remain in existence and work for Empire trade and the better distribution of the Empire's white population. It was able to save from its revenue nearly £10,000 for a Scholarship Fund, which was largely increased by subsequent gifts and grants-in-aid from various sources. Besides various grants to Empire educational work, grants were also made for Dominion research scholars. The Fellowship has sent over 300 scholars to Agricultural Colls. in the Dominions, and a few of the most successful of these are taking Univ. degree courses.

**GOLDSMITHS' COMPANY.** Senior Studentships (total value £780 p.a. at Oxford and £750 p.a. at Cambridge) not exceeding £250 p.a. open to British subjects under 26 years of age at date of application for assistance in post-graduate studies. Awards conditional on candidates taking First or Second Class Hons. in a Final School at Oxford or a Tripos at Cambridge, if they have not already done so. Students of Girton and Newnham are eligible on same terms as men. Renewable for 2nd year at option of Company. The holder must pursue his studies under the supervision of a recognized Univ. teacher in such place—either in England or elsewhere—as his teacher may approve. Applications with recommendation from Head of their Coll., 3 references to teachers, and programme of work must be addressed on or before June 1 to The Clerk, Goldsmiths' Hall, London, E.C.2, from whom further particulars are obtainable.

**HENRY FUND.** It is proposed to offer 4 Henry Fellowships annually for study, social intercourse, and travel, value £500 each for 1 yr., tenable at Harvard or Yale Univ. Candidates must be unmarried British subjects, not over 25 yrs. on Jan. 1, men or women, who are *either* grads. of a recognized Univ. of Gt. Britain or Ireland, *or*, being grads. of a British Dominion Univ., are at the time of appln. studying at a Univ. in the British Isles, or students of a British Univ. intending to graduate in the year of appointment. Further particulars and appln. forms can be obtained from the Hon. Sec., Henry Fund, c/o University Chest, Oxford.



LONDON UNIV.: WESTFIELD COLLEGE (for women). Two *research studentships* open to graduates of any Univ. Value, £30 and £60 respectively, plus free board and lodging at the College. Applications for ensuing academic year, to be made in Jan., must be accompanied by a scheme of work, 12 copies of 3 testimonials and names of 2 references.

MANCHESTER UNIVERSITY. A limited number of Hon. Research Fellowships are offered to candidates who can satisfy the Faculty concerned that they are qualified for some special study or investigation. Fellows work under the direction of the relevant Prof., and Fellows in Experimental Science are allowed to use approved appliances in the laboratory. They must themselves provide special apparatus and materials. Tenable for 1 yr., renewable for 2nd and possibly 3rd yr. Further particulars from the Univ.

OXFORD UNIV.: LADY MARGARET HALL. *Resident Research Fellowship*, value £250, open to women graduates of any Univ., given for 3 yrs. in first instance, with possibility of renewal.

OXFORD UNIV.: SOMERVILLE COLLEGE. *Lady Carlisle Research Fellowship*, £200 a yr. for 5 yrs., renewable up to 10 yrs. Open to all women of European race and to naturalized Jewesses, who are unmarried or widows. Last award 1929.

[The following instn. does not grant scholarships but makes loans.]

THE CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (incorporated), 54 Russell Square, London, W.C.1, has established a loan fund to help educated women who are without the means of training for professional work. No interest is charged. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £8000.

### *Travelling*

ALBERT KAHN TRAVELLING FELLOWSHIPS. Founded by M. Albert Kahn of Paris "to enable men of proved intellectual attainments to enjoy during one yr. or more sufficient leisure and freedom from all professional pursuits or preoccupations to enter into personal contact with men and countries they might otherwise never have known; to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and endeavours as go to the making of general civilization." Value originally £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), increased since 1920 to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in Gt. Britain or Ireland. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made, in any yr. in which a Fellowship is awarded, not later than May 31 on nominations made in the preceding Jan. by the Vice-Chancellors of the Univs. in the U.K., or the President of the Royal Society, or the President of the British Academy. No award was made for 1931 and the Fellowship

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must be regarded as in temporary abeyance. *Address* of the Secy. to the Foundation, University of London, South Kensington, S.W.7.

**FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK.** The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the Universities Bureau for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (*a*) for the purpose of holding temporary teaching-posts, or (*b*) for the purpose of prosecuting research work into problems connected with their development and resources. Application must be made to the Bureau by the authorities of the graduate's Univ.

**THE INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN**, Crosby Hall, Cheyne Walk, London, S.W.1, awards Travelling Fellowships for women graduates of all countries, available for a year's research work in some country other than that of the holder. A research fellowship is awarded annually, value £250-£300. Further particulars from the Secretary.

**OXFORD UNIV. : LADY MARGARET HALL.** *Susette Taylor Fellowship* for independent study abroad. Value £150, open to women graduates of any Univ.

**SCOTTISH UNIVS.** *Sir James Caird Travelling Scholarships* in Engineering, Electricity, Aeronautics, and Music. Open to natives of Scotland of either sex. Value: Junior £50-£150, Senior £250-£600 p.a., according to place of study and nature of work contemplated. Normally tenable for 1 yr., but may be continued up to a maximum of 3 yrs. Applications to John Pearson, Solicitor, 7 Ward Road, Dundee, not later than Mar. 31, from whom further information and application forms can be obtained.

**THE CHARTERED SURVEYORS' INSTITUTION**, 12 Great George St., London, S.W.1. Three one-year travelling scholarships, value £125, are offered annually for a post-graduate course of study at Cambridge Univ., or for the purpose of travelling. Open to persons who have already entered the profession and to graduates intending to do so. For further particulars apply to the Secretary.

### 2. ADULT EDUCATION

**THE LANCASHIRE COUNTY COUNCIL EDUCATION COMMITTEE** offer Scholarships (1 or 2) of value probably not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. Tenable for a year, and renewable for a 2nd or 3rd yr. They are not intended for persons who desire to take ordinary three-year univ. courses in Arts, Science, Medicine, or Technology, nor for those wishing to qualify as teachers in Public Elementary Schools. The scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved instn. Entry forms obtainable from the Director of Educn., County Offices, Preston.

### 3. AGRICULTURE, VETERINARY SCIENCE, ETC.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2. *Travelling Scholarship* in Agriculture, value not over £300 for one yr. for study of Agricultural methods in this country or abroad. Open to British-born graduates of a British Univ. or those holding other approved qualifications. Candidates, who must be under 30 yrs. of age, must apply on a prescribed form to the Secy. of the Coll.

COLONIAL OFFICE (i.) Not more than 10 scholarships in *Agriculture*, usually tenable for 2 yrs, will be offered annually until further notice, (a) for Agr Research, (b) for General Agr £200 p a (£225 abroad) plus tuition fees, passages, and certain other expenses. Candidates for (a) scholarships should hold an Hons. degree in Pure Sci., for (b) a degree in Nat. Sci. or Agr. The holders will spend part of their course at the Imperial Coll of Trop Agriculture in Trinidad, or some similar institution. On completing their course they may be selected for appointment to the Colonial Agricultural Service.

(ii) A limited no. of post-grad. scholarships in *Veterinary Science* will be awarded annually until further notice for periods of from 1 to 4 yrs £200 p a. plus tuition and, if necessary, examn. fees. Candidates should normally hold a sci degree of a British Univ. or the diploma of the Royal Coll. of Veterinary Surgeons, or a Vet. qualification granted in one of the self-governing Dominions. On completing their training they may be selected for appointment to the Colonial Veterinary Service.

Further particulars obtainable from the Director of Recruitment, 2 Richmond Terrace, Whitehall, S.W.1.

EMPIRE COTTON GROWING CORPORATION, Millbank House, 2 Wood St., Millbank, London, S.W.1. The Corporation have decided to suspend for the year 1933-34 the post-graduate studentships usually offered to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, entomology, tropical agriculture, etc. Value £250 each, in addition to travelling expenses, and tuition fees for those holding their studentships at the Imperial College of Tropical Agriculture, Trinidad, with additional allowances for books and apparatus.

MANCHESTER UNIVERSITY. *Philip Buckle Research Scholarship* in Agric. Zool. £74 p a., renewable for 2nd yr. Open to graduates of British Univs. or other candidates possessing required qualifications, with preference to Science grads. of the Univ. Next award 1933. Last date of appln. June 15.

The following does not make grants to individuals for research, but supports and promotes research by making grants to existing research organizations.

THE EMPIRE MARKETING BOARD, 2 Queen Anne's Gate Bldgs., Dartmouth St., London, S.W.1, was set up in 1926 to advise the Secretary of State for Dominion Affairs in the administration of an annual Parliamentary Vote for the furtherance of the marketing of Empire products (including home agricultural produce). The main activities of the

Board are in the fields of scientific research, economic investigation, and publicity. Many grants for scientific research have been made to institutions both at home and overseas. *See also* under S. Africa below.

#### 4 APPLIED SCIENCE AND TECHNOLOGY

**BIRMINGHAM UNIVERSITY** Research Studentship in Oil Engin and Refining, £240 p.a., and remission of tuition fees, renewable annually for not more than 3 further yrs. with increase of £20 p.a. to maximum £300. Candidates must possess a Univ. degree or equivalent in Science. Pref. to those with industrial lab. experience Offered every alternate yr. Next award may be made in 1933.

**LEEDS UNIVERSITY.** (i.) Fellowships (£160) and Scholarships (£100-£140) instituted by the Clothworkers Company for research in Textiles and Colour Chemistry, open to graduates of any Univ. Tenable for 1 yr. and renewable. Applications received up to June 1.

(ii) *Gas Research Fellowship*, £200 p.a., open to qualified candidate, with preference to one intending to enter the coal gas industry. Tenable for 1 yr. and renewable. Award made in June, after advertisement.

(iii) *James Edmondson Ackroyd Fellowship*, value not less than £150 p.a., for research work for the furtherance of the Textile Industry of the West Riding of Yorkshire Preference to graduates in Sci. or Technol.; open to suitable candidates from other Univs., but preference *ceteris paribus* to natives of, or residents for not less than 5 yrs. in, Bradford. Awarded for 3 yrs., and renewable for further period not exceeding 3 yrs. Awards made in June; applications received up to May 1.

**MANCHESTER UNIV. : MUNICIPAL COLLEGE OF TECHNOLOGY.** Research Scholarships (10) in Technology, £100 each, open to graduates of any Univ. in the Empire and others possessing special qualifications.

**NOTTINGHAM UNIVERSITY COLLEGE.** For post-graduate scholarships in Applied Science, *see* p. 794.

**ROBERT BLAIR FELLOWSHIPS.** Two fellowships in Applied Science and Technology awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 1.

**THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851.** The Commrs. offer *Industrial Bursaries* of not more than £143 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British male subjects aged under 25 recommended through the executive authorities of such instns. as may be invited by the Commrs. to nominate. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post

to be approved by the Commrs, and is in need of pecuniary assistance to enable him to hold such a post. 18 bursaries awarded in 1932.

*Address of the Secy.* to the Commrs., 1 Lowther Gardens, Exhibition Road, London, S.W.7.

**SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY.** The Institute offers Fellowships to chemists of graduate standing to enable them to undergo a special further training at home or abroad for careers in chemical industry. The value of a Fellowship is normally from £250 to £300, but the Inst. is prepared to consider applns. which justify the award of a Fellowship of higher value. Further particulars from the Director, Salters' Hall, St. Swithun's Lane, London, E.C.4.

**SHEFFIELD UNIVERSITY.** (i.) *Ironmongers' Company Research Fellowship* in Cold-working of Steel and other ferrous metals, £500 p.a. Tenable at Sheffield Univ., length of tenure not fixed. Date of next award uncertain.

(ii.) *Ironmongers' Company Research Scholarships* (2), tenable at Sheffield Univ., £150 p.a. renewable from yr. to yr. for a period usually not exceeding 4 yrs. in all. Open to British subjects of Engl., Scottish, Welsh, or Irish birth, graduates or students of Sheffield Univ. or grads. of other Univs. Preference to candidates with special qualifns. in Engin. and in Physics respectively. Date of next awards uncertain.

(iii.) Research Fellowships in Glass Technol. are offered from time to time. Candidates should possess an Hons degree with special training in phys. chemistry, physics, or metallurgy. The Fellows will be engaged under the direction of the Prof. on fundamental researches on the constitutions and properties of glass.

Further particulars in each case from the Registrar.

## 5. ARCHITECTURE

See Art and Archæology

## 6. ARTS (General)

**BRITISH FEDERATION OF UNIVERSITY WOMEN**, Crosby Hall, Cheyne Walk, London, S.W. 3. *Caroline Spurgeon Scholarship* in Arts, £100 p.a. for 2 yrs., to enable the holder to carry on research or advanced post-graduate work while residing at Crosby Hall. Offered biennially. Open to all members of the Internat. Fedn. Further particulars from the Secretary.

**CAMBRIDGE UNIV. : GIRTON COLLEGE.** (1) *Jex-Blake Fellowship* in Arts, value £250 p.a. for 3 yrs, for research in any branch of learning except Maths. and Nat. Sciences. Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Last award 1932.

(ii.) *Pfeiffer Fellowship* in Arts, value £250 p.a. for 3 yrs. Conditions as for Jex-Blake Fellowship above. Last award 1931.

## 7. ARTS (Special Subjects)

*Art and Archæology*

BRITISH SCHOOL AT ROME *The Rome Scholarships* in (i.) Architecture, (ii.) Mural Painting, (iii.) Sculpture, (iv.) Engraving. Each of the value of £250 p.a., tenable for 2 yrs. Open to Brit. subjects of either sex who are unmarried and under the age limits prescribed by the Faculties conducting the annual competitions (v.) *The Bernard Webb Studentship* for the historical and critical study of Architecture, tenable for 1 yr. and open to students who have been members of the Architectural Assn. for 4 yrs. Value £250. (vi.) *Rome Scholarship for Research* in Roman or Italian Hist., or Antiquities or Lit., and (vii.) *Rome Scholarship* in *Medæval Studies* awarded in alternate years of the value of £150 p.a., tenable for 2 yrs. and open to students under 30 yrs. of age. (viii.) *Pelham Studentship* in Archæology, value £100, and (ix.) *Oxford Studentship* in Archæology, value £100, awarded in alternate years by the Univ. of Oxford. Address of the Secretary, British School at Rome, 1 Lowther Gardens, Exhibition Road, London, S.W.7, and of the Secretary, Faculty of Archæology, 50 Bedford Square, London, W.C.1.

BRITISH SCHOOL AT ATHENS. A studentship of value £100 tenable for one year is placed at the disposal of the Univs. of Oxford and Cambridge alternately. About every 3 yrs. the *Sachs Memorial Studentship* (£100) is open to all Univs. in the British Isles (particulars advertised in the spring of 1933); and the *Macmillan Studentship* (£200) is tenable for 2 yrs. by a man of British nationality. Nomination to these is made by the Managing Committee. The R.I.B.A. also maintains a Bursary at the School (see Royal Institute of British Architects). All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work. They can, on payment of a small rent, reside in the School Hostel, and are admitted to use of the library. They also obtain special facilities for working in Museums and in travelling. Open to any qualified British student, including students of the British School at Rome, and holders of travelling fellowships, studentships, or scholarships at any Univ. of the British Empire, and travelling students of the Royal Academy, the R.I.B.A. and the Byzantine Research and Publication Fund, or other similar bodies, are admitted as students. The School is open from Nov. 1 to July 1. Further particulars from the Secretary, British School at Athens, 50 Bedford Square, London, W.C.1.

GILCHRIST EDUCATIONAL TRUST. Studentship in Art and Archæology, offered in alternate years, tenable at the *British School at Rome*, £75 for 1 yr. At least 5 months to be spent in Rome. Open to men and women under 25 yrs. for a definite course of study for which Rome offers advantages and calculated to assist them in their profession. Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any refs., should reach the Secy. of the School, British Museum, London, W.C.1, by July 31.

ROYAL INSTITUTE OF BRITISH ARCHITECTS *The Athens Bursary in Architecture*, £100, tenable at British School at Athens. Open only to members of teaching staff of a recognized school of the R.I.B.A. Offered for award every year. Further particulars from the Secretary, Board of Architectural Education, R.I.B.A., 9 Conduit St., London, W.1.

THE LONDON MUSEUM, Lancaster House, London, S.W.1. *Esher Research Studentship* for Archæology or History, offered biennially, value £300 p.a. Open to all graduates without restriction. Next award March 1933. For further particulars apply to the Secretary.

### Classics

BRITISH ACADEMY.—*Cromer Greek Prize*, £40. Open to British subjects under 26 yrs. of age. Essays to be sent in before Dec 31. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

CAMBRIDGE UNIVERSITY. (i) *Craven Fund*. Grants may be made to the Craven Student or to any person engaged in research in the Langs, Lit., Hist., Archæol. and Art of Ancient Greece and Rome, and the Compar. Philol. of the Indo-European langs.

(ii) *Sir Perceval Maillard Lawrence's Bequest*. Grants not exceeding £100 p.a., may be made in aid of research.

### English Literature

BRITISH ACADEMY. *Rose Mary Crawshay Prize* for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. Suggestions of works to be considered may be sent in at any time, and will be considered in April of each year. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

### Geography

GILCHRIST EDUCATIONAL TRUST. Studentship in Geography, £100 awarded biennially. *In abeyance*

Address of the Secy. to the Trustees: 1 Plowden Buildings, Temple, London, E.C.4.

### History

CAMBRIDGE UNIV.: ST. JOHN'S COLLEGE. *Mullinger Scholarship* in Mediæval Hist., £100 p.a. for 2 yrs. Open to graduates of Overseas Dominions and of the U.S.A. Applications to the Senior Tutor.

CAMBRIDGE UNIV.: GIRTON COLLEGE. Graduate Scholarship for Historical Research, £100. Usually open to graduates of any Univ. Offered from time to time.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. See p. 772.

LONDON MUSEUM. *Esher Research Studentship*, see above.

LONDON UNIVERSITY. (i.) *Julian Corbett Prize*, value £50, open to

any investigator admitted to the Institute of Historical Research who has been working either there or, if a naval officer, under the advice of the Committee of the Institute for not less than one yr. prior to date of sending in work for competition. The work shall be either a dissertation or an edition of an original document or documents, or a report on material at home or abroad illustrating modern naval history. In and after 1933, intending candidates must, on or before Oct. 1 in year preceding entry for the Prize, submit for the approval of the Inst. of Hist. Research Committee the subject of proposed work, and without such approval no work will be eligible. The prize is awarded annually, and applications should reach the Sec., Institute of Historical Research, Malet Street, London, W.C.1, before Oct. 1.

(ii) *Lindley Studentship*, value £120, awarded every 3rd yr. if there is a candidate of sufficient merit, for research in History to be undertaken at the Institute of Hist. Research. Open to both sexes; preference to a graduate of the Univ. or to candidate prepared to work for a higher degree of the Univ. Applications as above, before May 30, 1934.

LONDON UNIV.: UNIVERSITY COLLEGE *Sir William Meyer Studentships* (endowment, £3000). 1 in European Hist., 1 in Hist. and Geog. of India, about £120 each, tenable for 2 yrs. Open to graduates of Univs. of the Empire studying for approved higher degrees of the Univ. of London. Applications to the Secretary of the Coll. on or before June 1. Next award, June 1934—Hist. and Geog. of India.

MANCHESTER UNIVERSITY. (i.) *Edmund Roscoe Post-graduate Scholarship*, £50 for 1 yr., renewable for a second yr. Open to persons of British nationality who have studied Hist. in any Univ. or Univ. Coll. Offered alternately with the Pickles post-graduate studentship. Next award 1934. Last date for applns. June 15.

(ii.) *Pickles Post-graduate Studentship*, £50 for 1 yr., offered biennially, conditions same as for foregoing, except that there is no limitation to British subjects. Next offer 1933.

### *History, etc., of British Empire*

THE ROYAL EMPIRE SOCIETY. (i.) *Walter Frewen Lord Prize* in Imperial Hist. Annually, value £25, for a monograph or essay (10,000-20,000 words) on a subject of Imperial Hist. embodying either the results of orig. work or an ordered and critical exposition of existing data. Open to undergraduates or graduates of any Univ. or Univ. Coll. in the Empire of not more than 4 yrs.' standing from their first degree. Next award 1934. Applns. to be received on or before Dec. 31, 1933.

(ii.) Grants from a small fund are made to facilitate the publication of orig. monographs embodying results of research relating to the British Empire oversea. Candidates must not be more than 35 yrs. on Dec. 31 of yr. of application. Monographs of not more than 60,000-80,000 words. Next award about end of Jan. 1934. Applns. before Dec. 31, 1933. Further particulars in each case from Asst. Secretary, Imperial Studies Committee, Royal Empire Society, Northumberland Avenue, London, W.C.2.



*History and Geography of India*

LONDON UNIV. : UNIVERSITY COLLEGE *Sir William Meyer Student-ships, see under History.*

*Law*

CAMBRIDGE UNIVERSITY. (i.) *F. W. Maulland Memorial Fund.* (Annual income about £100.) Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

(ii.) *Whewell Scholarships* in International Law, one at least annually of £100 for 2, with possible extension to 3 yrs, open to all persons whether already members of the Univ. or not who are under 25.

*Mathematics*

CAMBRIDGE UNIV. : ST. JOHN'S COLLEGE. *Philip Baylis Studentship* in Mathematics, £200. Open to graduates of any Univ., but preference to College members. Applications to the Senior Tutor.

*Modern Languages*

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See p. 772.*

GILCHRIST EDUCATIONAL TRUST. Studentship in Modern Languages. £80, awarded biennially, tenable abroad. Open to honours graduates in a mod. foreign lang. or languages, intending to teach the same in a secondary or intermediate school. Applications to the Registrar, University of Wales, Cathays Park, Cardiff.

LONDON CHAMBER OF COMMERCE. From the *Charles R. E. Bell Fund* two scholarships, value £150 each, will be awarded in 1933 and annually until further notice for continuous residence and language study for not less than 6 months in a foreign European country. Open to approved male candidates between 16 and 23 yrs. of age whose parents are natural-born British subjects. Candidates must pass the Chamber's Higher examn. in English, and pass with distinction in one foreign language. Address—Commercial Education Dept. of the L.Ch.C., Oxford Court, Cannon St., London, E.C.4.

*Music*

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarship* in Music, *see under General (Travelling).*

*Oriental Languages*

GILCHRIST EDUCATIONAL TRUST. Scholarship in *Chinese*, or, in case of no suitable candidate, in *Arabic* or *Sanskrit*. £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr.'s standing, in an Oriental country. Open to candidates

of European origin. Awarded on results of an examn. held in July in Grammar, 2 set books, and unseen translation. Applications (in a prescribed form) receivable by the Director of the School, Finsbury Circus, London, E.C.2, up to May 15.

LONDON UNIVERSITY. *Ouseley Memorial Scholarships*, 1 in Arabic, 1 in Persian, 1 in Urdu or Hindi. £65 each for 1 yr., tenable at a College or School of the Univ. or in an Oriental country. Open to graduates of European origin. Applications to the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

### *Philosophy*

CAMBRIDGE UNIV.: NEWMHAM COLLEGE *Sarah Smithson Fellowship* in Psychology or Philosophy (incl. Class. Philos.), £250 p.a. for 3 yrs. Open to graduates of any Univ. Awarded on dissertation or other written work. Applications to The Principal.

### *Psychology*

*See Philosophy*

## 8. COMMERCE

BRADFORD CHAMBER OF COMMERCE, Commerce House, Bradford, Yorks. Endowment, £40,000, established Dec. 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders will be expected to be affiliated to business firms of good standing in the countries they go to. Preference to persons intending to study Spanish or Russian. Application forms (price 1s) obtainable from the Secretary.

## 9. ECONOMICS AND SOCIOLOGY

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See p. 772.*

THE CO-OPERATIVE UNION. *Acland Travelling Scholarships* (Exec. Committee of the Labour Party and Co-op. Union Central Board) for investigation of industrial, social, or ednl. conditions abroad. £200-£250 for 9-12 months. Open to British candidates, 20-30 yrs. of age, with sufficient knowledge of foreign langs. (or who acquire it) for the work. Applications to The General Secretary of the Union, Holyoake House, Hanover St., Manchester.

THE GARTON FOUNDATION, 1 Lowther Gardens, Exhibition Rd., London, S.W.7. *The Garton Studentship*, value £400, for study, during a year or more, of social or economic problems of fundamental importance. Open to British subjects nominated (on invitation) by certain Universities of the Empire. Candidates must submit a thesis and propose a subject for research. Next award in 1933.

LONDON UNIVERSITY. *Metcalf Studentship* for women, value £100

at least, tenable at London School of Economics. Open to any woman graduate of a United Kingdom Univ. for research on some social, economic, or industrial problem approved by the Univ.; preference to a student proposing to study a problem bearing on the welfare of women. Further particulars from, and applications (before Sept. 1) to, the Academic Registrar, Univ. of London, S Kensington, S.W.7.

LONDON UNIV. : LONDON SCHOOL OF ECONOMICS.

(i.) *Research Studentship*, £200 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ. or Pol. Sci. Applns. by Oct. 3, 1933.

(ii.) *Women's Studentship*, £150 p.a. plus fees, tenable at the School for 2 yrs, open to women students 20 yrs of age or over, for research preferably in Econ. Hist. Applns. by Sept. 12, 1933.

MANCHESTER UNIVERSITY. *Drummond-Fraser Research Fellowship* in Econ. and Commerce. £100 for 1 yr. Open to graduates of any approved Univ. Applns. by June 1.

THE MITCHELL TRUST. A *Mitchell Studentship*, value £100, open to graduates of a British Univ. *Award suspended*. Further particulars from the Clerk to the Mitchell Trustees, H A Cox, F.C.A., F.S.A., 28 Basinghall St., London, E C 2.

SOCIAL SCIENCE RESEARCH TRAINING COMMITTEE No information is available as to grants from this Committee for 1933 Further information from the Secretary (Mr. N. F. Hall) of the Social Science Research Training Committee, University College, Gower Street, London, W C 1.

## 10. EDUCATION

BOARD OF EDUCATION, Whitehall, London, S.W.1. A limited number of Studentships may be awarded to assist suitable teachers in recognized schools and instns., of not less than 5 yrs.' teaching experience, to undertake at Univs. or other instns full-time courses of advanced study or research which may reasonably be expected to lead to improved teaching ability. If an academic course, it should be of at least post-graduate type. Proposals to carry out research embodying travel or the practical study of industrial conditions definitely connected with the teaching of technical subjects have been considered. The grant may be made in the first instance either for a term or for an academic year, and may be extended at the Board's discretion to not more than 2 yrs. in all. The amount depends on the candidate's circumstances and the length and nature of course proposed, and the rate will not exceed £100 for one acad year. Further particulars and appln. forms obtainable from the Secretary.

THE CO-OPERATIVE UNION, *Acland Travelling Scholarships*. See under Econ. and Sociology.

GILCHRIST EDUCATIONAL TRUST. Several Scholarships of £30 tenable for 1 yr. in a Training College for Women. Open to graduates of a British or other recognized Univ. Address of the Secretary to the Trustees, 1 Plowden Buildings, Temple, London, E.C.4.

MANCHESTER UNIVERSITY. Graduate Bursaries, not more than 6 annually. Free entry to Diploma Course Open to graduates or the equivalent, of not more than two and a half yrs' standing, of any Univ. in Gt. Britain and Ireland. Preference, in the case of three, to grads. of Manchester. Award in July.

SCOTTISH TEACHERS' SCHOLARSHIPS. 3 annually, £250, plus £50 for travelling expenses, for 1 yr. with possible renewal. Tenable at Teachers' College, Columbia Univ., N.Y., Toronto Univ., and McGill Univ., Montreal. Open to trained certificated teachers holding M.A. or B.Sc. degree, who have distinguished themselves in their professional career. *Temporarily suspended*. Applications to The Executive Officer, Central Executive Committee for the Training of Teachers, 140 Princes St., Edinburgh See also pp 291-2.

SIR RICHARD STAPLEY EDUCATIONAL TRUST. Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc In 13 years it has assisted over 3400 students at universities. In 1933 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities entitled "The Poor Student and the Universities." *Address*—The Secretary, 32 Gordon Sq., London, W.C.1.

## 11. ENGINEERING (General)

BOARD OF EDUCATION, Whitehall, London, S.W.1. *Whitworth Scholarships* (maintained by Sir Joseph Whitworth's Foundation), five of £150 p.a. for 3 yrs, three of £150 for 1 yr., and two of £250 for 2 yrs. Open to British subjects under 24 yrs. of age for the middle group, and 26 for the first and last group, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn. held in May. Applications receivable up to Jan. 15. Regns with syllabus obtainable (3d.) from H.M. Stationery Office, Kingsway, London, W.C.2.

MANCHESTER UNIVERSITY. (i.) *Vulcan Fellowship* for advanced study and research in Electr. and Mech. Eng. £200 p.a., renewable for 2nd and possibly 3rd yr. Open to graduates of any Univ.

(ii.) *Osborne Reynolds Research Fellowship* for research in Eng. or in sciences most directly related thereto. £200 p.a., renewable. Open to graduates of any Univ. Appln. not later than May 1.

SCOTTISH UNIVS *Sir James Caird Travelling Scholarships* in Engineering, etc See under General (Travelling).

## 12 ENGINEERING (Special Branches)

### *Engineering, Electrical*

THE BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCN., 36 Kingsway, London, W.C.2, for several years granted scholarships in

Engineering of £100 plus college fees to apprentices or students of British birth. *The scheme is under revision.*

*See also Engineering (General).*

### *Engineering, Mechanical*

BIRMINGHAM UNIVERSITY. (i.) *Jas Watt Fellowship* in Mech. Engin., £250, tenable for 1 yr. in the Dept. of Mech. Engin., renewable. Candidates should be Hons. graduates in Engin. of a British Univ., preference to those who have had at least 1 year's experience of post-grad. research.

(ii.) *Jas. L. Newton Memorial Studentship*, £100, tenable for 1 yr. preferably in the Univ., for whole-time study of motor-cycle engin. problems

*See also Applied Science and Technol. and Engineering, General.*

### *Mining and Mining Engineering*

THE INSTITUTION OF MINING ENGINEERS. *Mavor and Coulson travelling post-graduate scholarship* in Mining Engineering. *See App. IX.*

THE ROYAL SOCIETY, *Tyndall Research Fund.* *See under Science (General).*

### *Naval Architecture and Marine Engineering*

THE INSTITUTION OF NAVAL ARCHITECTS, 2 Adam St., Adelphi Terrace, London, W.C.2. *Sir William White Post-graduate Scholarship* (part-time) in Naval Architecture (incl. Shipbuilding and Marine Eng.), £150 p.a. for 2 yrs. Private work may be carried on concurrently, subject to Council's approval. Open to British students under 30 yrs. of age who have attained distinction at either the R.N. Coll., Imperial Coll. (City and Guilds Engin. Coll.), Glasgow Univ., Armstrong Coll., or Liverpool Univ., and have had practical experience in shipbuilding or marine eng. work. Nominations are made by the Governing Bodies of the above instns. to the Council of the Instn. of N.A.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. Post-graduate scholarship in Naval Architecture. £250 p.a. for 2 yrs. for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in Naval Arch. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or Armstrong College. The nominations are reported on by the Council of the Instn. of Naval Architects.

Address of the Secy. to the Comms., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

## 13. FISHERIES AND PRESERVATION OF FISH

DEVELOPMENT FUND. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund as follows.

1. *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work.

2. *Grants for Specific Researches*. (a) Directed to definite economic ends of use to the Fishing Industry, and carried out in collaboration with the Ministry of Agriculture and Fisheries and the Fishery Board for Scotland; or (b) "Free" researches

The amount provided in the Ministry of Agriculture and Fisheries' estimates for 1932-33 for grants under 2 (a) was £100. A sum of £200 for Miscellaneous Researches was provided for that year in the estimates of the Fishery Board for Scotland.

The Development Commrs. will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff of a Marine Institution to prosecute special lines of inquiry.

Details are contained in the annual reports of the Development Commissioners (6A Dean's Yard, Westminster, London, S W.1), obtainable from H.M. Stationery Office, Kingsway, London, W C.2.

MARINE BIOLOGICAL ASSOCIATION. *Ray Lankester Fund*, £100. See App. XXIV., A. III. 1.

#### 14. JOURNALISM

LONDON UNIVERSITY. *Journalism Exhibns.* £50-£75 p.a. for 2 yrs. Three awarded in 1931. Further particulars from the Academic Registrar.

#### 15. MEDICINE AND SURGERY (General)

BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH. Founded in 1909 by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in memory of his brother Alfred, "to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Open to graduates, men or women, of pure European descent, in any Faculty of a Univ. in the British Empire. Six Junior Fellowships, each of £400 p.a. more or less and usually tenable for 3 yrs., are awarded in July. An extension to a fourth year at £500 is sometimes granted. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £700 p.a., tenable for 3 yrs., may also be awarded to persons who have already held Junior Fellowships. Address of Hon. Sec. to the Trust—Prof. T. R. Elliott, M.D., F.R.S., University College Hospital Medical School, University St., London, W.C.1.

CAMBRIDGE UNIVERSITY. *Gwyneth Pretty Research Studentship*, of £200 for 3 yrs., for research in the Aetiology, Pathology, or Treatment of Disease with particular reference to diseases which disable in childhood or early life. Candidates need not be members of the Univ. Offered triennially.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND, v. p. 772.

GROCERS' COMPANY. Three scholarships, £300 each, for 1 yr., renewable for 1 or 2 yrs., for inquiry into Causation of Prevalent Disease or as

to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35 yrs. of age. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2.

LONDON UNIVERSITY. (i.) *Mary Scharlieb Research Studentship* for post-graduate medical research. £250 for 1 yr., renewable for 2nd yr. Awarded from time to time.

(ii.) *Rogers Prize*, value £100, for an essay or dissertation on some medical or surgical subject named and appointed by the Univ. and made public in such manner and at such time as the Univ. may determine. Open to all persons on the Medical Register of the U.K. The essay or dissertation to be addressed under a motto or device to the Vice-Chancellor, and delivered at the Univ. on or before 4 P.M. on the last day, other than Sunday, of April in the yr. of award. Last award, 1931.

LONDON UNIV.: LONDON SCHOOL OF MEDICINE FOR WOMEN. *Dr. Edith Pechey Phipson Post-graduate Scholarship* in Medicine. £100 for 1 yr. with possible renewal for 2 further yrs. Open to all medical women, with preference to those from or going to work in India. Forms of application to be obtained from and sent in by Mar 1 each yr to the Secretary, 8 Hunter Street, London, W.C.1.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1, formerly the Medical Research Committee established in 1913 under the Nat. Health Insurance Act, transferred by Royal Charter, 1920, to a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. Grants are made to qualified investigators in respect of approved programmes of research work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches.

*Rockefeller Medical Fellowships*, not less than £350 p.a. plus travelling expenses, tenable normally for 1 yr. in the U.S.A., or in suitable cases in other countries, are also provided for graduates in medicine or related branches of science: 5-8 awarded annually. The value of these Fellowships may be increased in view of the qualifications of candidates and programme of work proposed.

ROYAL COLLEGE OF PHYSICIANS, Edinburgh: (i.) *Freeland Barbour Fellowship*, value about £100, awarded biennially; next award May 1933. Open to those who have done original work for the most part in the two preceding yrs. in the Laboratory of the Royal Coll.

(ii.) *Lister Fellowship*, value about £100, awarded biennially, next

award May 1934, open to licentiates or graduates in Med. or Surg. for original research carried on for the most part during the 2 preceding yrs. in the Laboratory of the Royal Coll.—preference to research in Bacteriology.

(iii.) *Parkin Prize*, value £100, for an Essay in the English Lang. Open to competitors of all nations. Essays, which must bear a motto and be accompanied by a sealed envelope bearing the same motto outside and the author's name inside, must reach the Secretary not later than Dec. 31, 1934. Subject: "On the effects of volcanic action in the production of epidemic diseases in the animal and in the vegetable creation, and in the production of hurricanes and abnormal atmospheric vicissitudes."

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Streatfeild Scholarship*, £250 for 3 yrs., for research in Medicine or Surgery. For particulars apply to the Registrar, Pall Mall East, London, S.W.1.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Mackenzie MacKinnon Research Fellowship*. For 1-3 yrs. Open to holders of med. qualification registrable in Gt. Britain or Ireland, or of a Univ. degree, nominated by a Med. School. Application to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C.2.

ROYAL SOCIETY OF MEDICINE. *William Gibson Research Scholarship* in Medicine, £290 p.a. for 2 yrs., renewable for a third yr. Awarded from time to time to qualified med. women who are British subjects. Unrestricted travelling allowed for purposes of research undertaken. Applications to the Secretary, 1 Wimpole St., London, W.1.

## 16. MEDICINE AND SURGERY (Special Subjects)

### *Anatomy*

MANCHESTER UNIVERSITY. *Morrison Watson Fellowship* in practical and descriptive anatomy, £150 p.a. and occasionally more; renewable for 2nd yr. Open to persons with a medical qualification registrable in the U.K. or a degree of an approved Univ. Applns. not later than June 1.

### *Bacteriology*

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Jenner Memorial Research Studentship*, £250 for 1 yr. with possible extension for 2nd yr. Open to British subjects. Vacancies advertised in medical journals.

LIVERPOOL UNIVERSITY. *John W. Garrett International Fellowship* in Bacteriology, £100, tenable for 1 yr., offered annually. Failing a candidate in Bacteriol., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Univs. and Med. Schools in the U.S.A., and of other foreign Schools. Applications to be sent to the Dean of the Fac. of Med. not later than May 31.



*Bio-Chemistry*

*See under 18, below.*

*Cancer*

LEEDS UNIVERSITY. *Cancer Research Fellowships*, given through Yorkshire Council of the British Empire Cancer Campaign. 4 in number, value not exceeding £500. Tenable for 1, 2, or 3 yrs., renewable. Vacancies announced as they occur. Applns. to the Clerk to the Senate.

LONDON UNIVERSITY. *Laura de Saliceto Studentship* for advancement of Cancer research, value £150 for 2 yrs, renewable for total of not more than 5 yrs. Open to both sexes irrespective of Univ. of which they are members. The Studentship may be held in conjunction with a physiol. or pathol. laboratory appointment or a clinical appointment affording special opportunities for study of Cancer. Vacancies in the Studentship will be advertised in the public press. Applications before July 1 of year of appointment. Further particulars from the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

MANCHESTER UNIVERSITY. *Pilkington Fellowship* in Cancer research. £300 p.a., renewable for 2nd yr. or more. Open to graduates in Med. or Surg. of any approved Univ. or Med. School, or to members or Fellows of the R. Colls. of Surgeons of England, Edinburgh, or Ireland, or Licentiates, Members or Fellows of the R. Colls. of Physicians of London, Edinburgh, or Ireland Applns. by June 30.

[The following body does not make grants to individuals for research, but supports and promotes research by making grants to existing research organizations.]

THE BRITISH EMPIRE CANCER CAMPAIGN was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from most of the principal hospitals with cancer research depts. Chairman, The Most Hon. The Marquess of Reading, P.C., G.C.B., G.C.S.I., etc. The Scientific Advisory Committee is appointed jointly by the Royal Society, the Medical Research Council and the Campaign. The Radiology Committee of the Medical Research Council, with representatives of the Campaign, acts jointly for both bodies. *Address*—Sir Richard Garton, G.B.E., Hon. Secy., 12 Grosvenor Crescent, Hyde Park Corner, London, S.W.1.

*Diseases of Children*

LIVERPOOL UNIVERSITY. *Ridgeway Research Scholarship*, value about £100, tenable for 1 yr. for research in some branch or branches of Tuberculosis in children. The Scholar must be a graduate in Med. of an approved Univ. (or hold a registrable qualification). Application, stating academic career and subject of proposed investigation, to be sent to the Dean of the Fac. of Med. not later than Sept. 30.

MANCHESTER UNIVERSITY. *Ashby Memorial Research Scholarship*

in diseases of children. £100 offered triennially. Open to any med. practitioner registrable in England. Next award 1934. Last day of entry June 30.

### *Neurology*

MANCHESTER UNIVERSITY. *Knight Fellowship* for study of the factors concerned in development of symptoms of mental disturbance. £150 offered triennially. Open to grads. of any Univ. Next offer, 1935 Applns. not later than June 1.

### *Obstetrics and Gynæcology*

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE *Ewen Maclean Research Scholarship* in Obstetrics and Gynæcology, £150 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

### *Pathology*

CAMBRIDGE UNIVERSITY. (i.) *J. L. Walker Studentship* in Pathological research, £300 p.a. for 3 yrs. Candidates need not be members of the Univ.

(ii.) *Pinsent-Darwin Studentship* in Mental Pathology, of about £227 for 3 yrs. Candidates need not be members of the Univ.

LIVERPOOL UNIVERSITY. *Garrett International Fellowship*, see p. 789.

LONDON UNIVERSITY. *Charles Graham Medical Research Fund*. A Scholarship in Pathology, value not exceeding £400 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology" Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Applications to the Academic Registrar.

LONDON UNIV.: IMPERIAL COLLEGE. *Henry George Plimmer Fellowship* in Pathology, about £220 p.a. Tenable at a recognized instn at home or abroad, ordinarily for 1 or 2 yrs., but may be indefinitely prolonged. Candidates must be of British nationality. Further particulars from the Registrar of the College.

OXFORD UNIVERSITY. *Philip Walker Studentship* for Research in Pathology. £200 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men.

### *Preventive Medicine*

MANCHESTER UNIVERSITY. *Sheridan Delépine Research Fellowship* in Preventive Medicine, £300 biennially. Open to graduates in Med. of any approved Univ. or to med. practitioners with approved registrable qualifn. Next award 1934. Applns. by June 1.

### *Tropical Medicine and Hygiene*

LONDON UNIV.: LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel Street, London, W.C.1 (1) *Wandsworth Scholarship* for research in Trop. Med. and Hygiene £370 p a, plus overseas allowance, for 1 yr. or 3 yrs. Tenable abroad. Preference given to a British subject.

(ii.) *Tropical Diseases Research Fund*. This fund exists for the purpose of research work at home or abroad by the School, in connexion with investigation into tropical diseases Capital £26,000, income available about £1300 p.a. Grants both of capital and income are applied to specific research in trop. diseases from time to time.

(iii.) *Edward John Stanley Memorial Fund* (1909). Founded by the late Lord and Lady Sheffield. Capital £1200; the accumulated yearly income of £54 is applied periodically, at the discretion of the Board of Management, in aid of specific pieces of research in trop. diseases.

(iv) Research Studentships at £250 p a, tenable for 2 or 3 yrs, are also available.

Further particulars from the Secretary of the School.

### *Tuberculosis*

LIVERPOOL UNIVERSITY. For *Ridgeway Research Scholarships*, see under Diseases of Children.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St, Westminster, S.W.1. *Dorothy Temple Cross Research Fellowships*, not less than £300, plus travelling expenses, tenable normally for 1 yr, are given for work in tuberculosis. 4-6 awarded annually. The value of these Fellowships may be increased in view of the qualifications of candidates and programme of work proposed.

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Cecil Prosser Research Scholarship* in Tuberculosis, £250 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

## 17. SCIENCE (General)

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH. Founded by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £240 p.a. for 2 yrs subject to report at end of first year. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25 yrs. of age, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to

carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees, including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College, South Kensington, London, S.W.7.

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships*, £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology*. Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—June 15.

CAMBRIDGE UNIVERSITY. *Gordon Wigan Fund*, £300 p.a., for scientific educn. or research.

CAMBRIDGE UNIV. : GIRTON COLLEGE. *Yarrow Fellowship*, value £300 p.a. for 3 yrs. for research in mathematical, phys. and nat. sciences (incl. Chem., Elect., Eng., Bot., Geol., Med., Agric., etc.). Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Offered from time to time.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. See p 772 above.

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH (16 Old Queen St., London, S.W.1) maintains a number of research stations, particulars of which are given in Appendix XXIV.

The Department also makes grants to individual research workers, engaged mainly in Univs. and Colls., under the following headings: (a) Maintenance allowances to students to enable them to undergo training in research; (b) Senior Research Awards (strictly limited in number) to enable young investigators of exceptional promise and proved capacity to devote their whole time to original research; (c) Grants to investigators of acknowledged standing to enable them to develop lines of research of exceptional timeliness and promise.

During the academic year 1931-32 the numbers of grants made in these categories were (a) 143, (b) 15, (c) 51, of which 85, 5, and 35 respectively were new grants. The scheme is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research. The grants are restricted in all cases to British subjects resident in Gt. Britain. Full particulars in the pamphlet, *Notes on Grants to Research Workers and Students*, obtainable from H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2, price 2d.

Particulars of the existing 21 Industrial Research Associations established in co-operation with the Dept. are given in Appendix XXIV. Of these, 17 are in receipt of grant aid under the Department's scheme for assistance to research associations. The remaining four (Colliery Owners, Iron Manufacturers, Printing, and Shale Oil) are

working without the assistance of grant under the scheme. In addition, grants are made to the National Federation of Iron and Steel Manufacturers, which carries out industrial research on problems of iron and steel production under the auspices of the Iron and Steel Industrial Research Council, a subsidiary body of the National Federation, and to the Institution of Automobile Engineers, in respect of the work of the Research and Standardization Committee recently established under its auspices, for the conduct of research and standardization in the motor industry. The latter scheme involves the termination of the existence of the Research Assn. of British Motor and Allied Manufacturers and the British Motor Cycle and Cycle Car Research Assn. as separate organizations.

Information as to the work of the Department will be found in the Annual Report for 1930-31, published by H.M. Stationery Office.

LONDON UNIVERSITY. (i) *Dixon Fund for assisting Scientific Investigations*. Income available for grants—about £275. Applications receivable by the Principal (from whom further particulars can be obtained) between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required (detailed estimate to be given), any previous grant received for same object, any apparatus of permanent value needed. Names of two referees to be given. Grants are made from the fund annually by the Senate for purchase primarily of apparatus and materials of a special nature to be used in scientific investigation. Instruments, specimens, etc., purchased out of grants to be returned to the Univ. Published results of researches must contain a reference to the Fund, and 10 copies be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

(ii) *Keddey Fletcher-Warr Studentships* for Post-graduate Research in Science to be conducted in the British Isles or other approved place. Value not less than £200 for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the public press.

NOTTINGHAM UNIVERSITY COLLEGE. Three post-graduate scholarships in Pure and Applied Science up to the value of £100 each and tenable for 1 or 2 yrs. may be awarded each year to suitable candidates. Open to graduates of any approved British Univ. Applications must be made by internal students of the Univ. of London not later than the second day following the publi. of the Degree Examn. Lists and by candidates from other Univs. not later than July 21.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851 offers: (i.) *Science Research Scholarships to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire.

Value, £250 p.a., with supplements in certain cases. Tenable ordinarily for 2 yrs., and in exceptional cases for 3 yrs., at any institution approved by the Commrs., but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 yrs. At present not less than 8 (Canada 3, Australia 2, S. Africa, N.Z., and Irish Free State, 1 each) are offered annually; recommendations receivable (South Africa, Irish Free State, May 1) (Australia, N.Z., and Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Manit., Queen's (Ont.), Sask., Tor., and any of the Univs. of Australia, N.Z., S. Africa, and the Irish Free State. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs.

(ii.) *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for longer; open to British subjects not (except in very special circumstances) more than 30 yrs. of age, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Commrs. to nominate; tenable at any Institn. at home or abroad approved by the Commrs. The student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs. may modify the value of the studentship. Women are eligible for all the above.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

THE ROYAL SOCIETY, Burlington House, Piccadilly, London, W.1.

(i.) *Foulerton Research Fund*. (a) Research Professorships, with stipend £1400-£1500 p.a. *Duties*: To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Profs. shall devote the whole of their time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (b) Research Studentship of £700 p.a., restricted to British subjects. *Duties*: To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (a) Prof. A. V. Hill and Prof. E. D. Adrian; (b) Dr. A. S. Parkes.

(ii.) *Yarrow Research Professorships* for research (whole-time) in Math.,

Physical, Chemical, or Engineering Sciences. Value, £1000-£1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years. Incumbents : Prof. A. Fowler, Prof. G. I. Taylor, and Prof. O. W. Richardson.

(iii.) *Messel Research Professorship* for the furtherance of scientific research. Value £1400 p.a., tenable in the first instance for 5 yrs. Incumbent : Prof P. Kapitza (apptd Aug 1, 1930)

(iv.) *Mackinnon and Moseley Research Studentships*. Each of the value of £350 p.a. Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Natural and Physical Science, including Geology and Astronomy, and . . . original research and investigation in Pathology." *Moseley Studentship* for "the furtherance of experimental research in Pathology, Physics, and Chemistry, or other branches of science, but not in Pure Mathematics, Astronomy, or any branch of science which aims merely at describing, cataloguing, or systematizing"

(v.) *Smithson Research Fellowship* in Natural Science. The Royal Society hold the capital of the Fund in trust. The income is administered by a Joint Committee of the Society and the Univ. of Cambridge. The Fellowship, £800 p.a. (which may rise to £850 in 3rd and 4th yr. and thereafter to not more than £900), with superannuation provision, is open normally to British subjects of either sex, including subjects of the Dominions, Colonies, and Indian Empire; but the Committee may in special circumstances invite a foreigner of scientific distinction to apply. Preference to candidates not over 35 yrs. of age. The holder will work in the Univ. of Camb. if appropriate laboratory accommodation is available.

(vi.) *Sorby Research Fellowship* for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield.

For all the above appointments applications are invited by public advertisement.

(vii.) *Scientific Relief Fund* (income about £700 p.a.) to aid scientific men or their families requiring assistance

(viii.) *Minor Funds* : Tyndall Mining Research, income about £40 p.a., for a studentship; Gunning, about £35 p.a.; Joule, about £70 p.a.; Lawrence, about £200 p.a., for research in diseases in man and animals.

(ix.) *Government Grants for Scientific Investigations*. The conditions are notified annually in time for applications to be received by March 31. Only British subjects are eligible. Total amount distributed in 1932 was £6222.

(x) *Medals*. Copley, for philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe; Royal (2), for advancement of Natural Knowledge; Davy,

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for Discovery in Chemistry in Europe or Anglo-America ; Darwin (with grant of £100, biennial), for work in Darwinian field ; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice ; Sylvester (with money grant, triennial), for Mathematical Research ; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The last four are open to foreigners as well as to British subjects.

### 18. SCIENCE (Special Subjects)

#### *Bio-Chemistry*

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Grocers' Company Research Studentship*, in Bio-Chemistry, £250 p.a., tenable for 1 yr., with possible extension for 2nd yr. Open to British subjects. Vacancies advertised in appropriate journals.

LIVERPOOL UNIVERSITY. *Johnston Colonial Fellowship* in Bio-chemistry, £100, tenable for 1 yr., offered annually. Failing a candidate in Biochem., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Colonial Univs. and Med. Schools (without, however, excluding Colonials who may possess British qualifications). Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV. : UNIVERSITY COLLEGE. *Bayliss-Starling Memorial Scholarship*. See under Physiol. below.

#### *Biology (Animal Morphology)*

CAMBRIDGE UNIVERSITY. (i.) *Balfour Studentship* in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs.; student need not be a member of the Univ., but must study in it for at least 3 terms.

(ii.) *Balfour Memorial Fund*. Grants may be made from this fund for original research in Biology, especially Animal Morphology, to the Balfour Student or to any other person engaged in such research.

#### *Biometrics*

OXFORD UNIVERSITY. *Weldon Memorial Prize* (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to Biometric Science.

#### *Botany*

CAMBRIDGE UNIV. : GIRTON COLLEGE. *Eitel Sargant Studentship* for research in Botany, value £100 ; sometimes open to women who are graduates or have taken honours in a final degree examn. of any Univ. in the British Isles. Offered from time to time.

#### *Chemistry*

CHEMICAL SOCIETY. The Research Fund of the Chemical Society was establd. in 1876 to assist investigators by defraying the cost of



expensive materials. The income from the Fund, incl. that from the donation of the Goldsmiths' Company and from the Perkin Memorial Fund, amounts to about £570 a yr. The Committee meets in June and Dec. to consider applications for grants. The income from the Goldsmiths' donation is mainly devoted to the encouragement of research in Inorg. and Metallurgical Chemistry, and that from the Perkin Memorial Fund for investigations connected with the Coal Tar and allied industries. The grants made during 1932 amounted to £729.

DURHAM UNIV.: ARMSTRONG COLLEGE, Newcastle-upon-Tyne. *Johnston Chemical Studentship* (£95) and *Prize* (£5), for 1 yr., awarded on the results of an examn. in Chem with Crystallography or Mineralogy or Bio-Chemistry, tenable at the College, involving at least 24 hours per week throughout the session. Open to B Sc of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem investigation is required. Applications to Registrar

INSTITUTE OF CHEMISTRY. *Pedler Research Scholarship* in Chemistry. See App. VIII.

MANCHESTER UNIVERSITY *Sir Clement Royds Memorial Scholarship* in Chemistry, £300 for 1 yr., renewable for 2nd, and possibly 3rd yr. Offered biennially. Open to British subjects of Brit. descent born in, or inhabitants of, Lancashire, with preference to candidates born in, or inhabitants of, Rochdale. Next award 1933. Last date of appln. June 1.

RAMSAY MEMORIAL FELLOWSHIPS The Trustees (Chairman, Sir Robert Waley Cohen, K.B.E.; Secy., C. O. G. Douie, University College, London, Gower St., London, W.C.1) award from time to time 3 Fellowships, value £300 a yr for 2 yrs, for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the following Dominion and Foreign countries: Canada, Czechoslovakia, France, Greece, Holland, Italy, Japan, Spain, Sweden, and Switzerland. The value is normally £300 a year, but some of the fellowships are of greater value.

### *Mathematics*

See Arts (Special Subjects)

### *Physics*

CAMBRIDGE UNIV.: PEMBROKE COLLEGE. *Gabriel Stokes Studentship* for research in Physics, about £425 p.a. for 3 yrs., renewable for a term not exceeding 5 yrs. Open to graduates (preferably of Cambridge) of from 23 to 28 yrs. of age.

MANCHESTER UNIVERSITY. *John Harling Fellowship* for research in

physical science £200 and occasionally more; renewable for 2nd and possibly 3rd yr. Open to all persons who can furnish satisfactory evidence of ability to pursue research. Next award not fixed.

### Physiology

LIVERPOOL UNIVERSITY. *Garrett International Fellowship*, see p. 789.

LONDON UNIV.: UNIVERSITY COLLEGE. *The Bayliss-Starling Memorial Scholarship* in Physiol. and/or Bio-Chemistry (founded 1929) value about £120 p.a. with exemption from tuition fees, tenable for 1 to 3 yrs. Candidates must be graduates of the Univ. of London or any other Univ. approved by the College Committee for the purpose, or undergrad. of the Univ. of London or any other approved Univ. as aforesaid of suitable standing in Sci. or Med. Applns. to the Secretary of the Coll., Gower St., London, W.C.1, early in May.

MANCHESTER UNIVERSITY. *Robert Platt Scholarship* for research in Physiology, £90 for 1 yr., renewable for 2nd and possibly 3rd yr. Open to candidates between 18 and 25 on Jan. 1 in year of award, without further restrictions. Next award 1933. Applns. by June 10.

### Zoology

ZOOLOGICAL SOCIETY, Regent's Park, London, N.W.8. The Society offers a research fellowship in Comparative Pathology, value £600 p.a., of unlimited duration, awarded in 1928 to Lt.-Col. A. E. Hamerton, C.M.G., D.S.O., late R.A.M.C.; and one of £400 for 5 yrs. (Anatomical Research), awarded temporarily for 1933 to Dr Burgess Barnett.

## 19. THEOLOGY

CAMBRIDGE UNIVERSITY. *Hort Memorial Fund*, £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith.

UNION THEOLOGICAL SEMINARY, N.Y. City. *The Mills, Hugh Black, Jarvie and Sewickley Fellowships* in Theology, \$1000 each for 1 yr with possible renewal, for advanced post-graduate work. The Mills Fellowship open to theol. students of high grade, graduates of the English and Welsh Univs., the remainder to graduates of Scottish Univs. of similar standing. Applications for the Mills Fellowship to Rev. the Principal, Mansfield College, Oxford, for the remaining three to Prof. G. S. Duncan, St. Mary's College, St. Andrews. Latest date May 31.

## B. DOMINIONS

### 20. GENERAL

CARNEGIE CORPORATION OF NEW YORK. A fund sufficient to provide during the next four years three grants of £320 each p.a., tenable for 1 yr., has been established by the Carnegie Corporation of New York and is administered by the Universities Bureau of the British Empire.

These grants will be awarded by the Executive Council of the Bureau to members of the teaching and administrative staffs of overseas Universities of the Empire on the nominations of the Heads of Universities. The recipients are required to visit Great Britain for research work or special inquiries. They must also undertake to return to their Universities. The first three grants were awarded in 1932. Applications should be lodged with the Heads of Universities. Further information from the Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1.

## 21. CANADA

MCGILL UNIVERSITY, Montreal. The *A. A. Browne Memorial Fellowship* (endowment, \$10,000), open to graduates of any recognized medical school. Special preference given to obstetrics and gynaecology.

NATIONAL RESEARCH COUNCIL, CANADA, Ottawa. In order to develop a corps of highly trained research men for the Univs., technical schools, industries, and tech. depts of Dominion and Provincial Govts., the Council awards bursaries (value \$600), studentships (value \$750), and fellowships (value \$1000) for post-graduate training in Science. For a fellowship demonstrated ability to carry on independent research is required. See also Appendix XXIV., B. I.

The Council also makes research grants to research workers in the Univs. and other research laboratories for specific investigations. (For further information, see *Canada Yearbook*, 1932, pp 867-70.)

QUEEN'S UNIVERSITY, Kingston, Ont. (i.) Two Fellowships in Arts, \$500 each, for 1 yr. Open to men and women, B.A. in Hons. at Queen's Univ. or with an equivalent degree elsewhere. One of these may be awarded as a Travelling Fellowship, otherwise tenable at the Univ. (ii.) Also 2 Fellowships in Arts, \$250 each for 1 yr. Open under same conditions as above. Applications not later than April 1 to the Registrar.

(iii.) *Milton Hersey Fellowship* for research in Chemistry, \$500 for 1 yr. Open to graduates of all Univs. and technical colleges. Applications up to May 1 to the Registrar. If no appointment made, further applications up to Sept. 2.

TORONTO, UNIVERSITY OF. (i.) Open War Memorial Fellowship, value \$900, with free tuition, to be awarded to grads. of any approved Univ. in the Dominion of Canada enrolled or intending to enrol in the School of Graduate Studies for the purpose of proceeding to a degree in any dept. of the Univ. Particulars from the Secretary-Treasurer, Alumni Federation, 43 St. George St., Toronto 5. Applications to be made before April 15.

(ii.) Four Special Open Fellowships of \$500, with free tuition, in the School of Graduate Studies, for students proceeding to the degrees of M.A. and Ph.D.

(iii.) *The Alexander Mackenzie Research Fellowship*, two of \$500 each, for research in the depts. of Political Sci. and Hist.

(iv.) *The McCharles Prize*, value \$1000 in money, awarded from time to time for: (1) The invention or discovery of any new and im-

proved process for the treatment of Canadian ores or minerals of a kind, after such process has been proved to be of special merit on practical scale; or (2) for any important discovery, invention or device that will lessen the dangers and loss of life in connexion with the use of electricity in supplying power and light; or (3) for any marked practical distinction achieved in scientific research in any useful practical line. Open to any Canadian (*i.e.* any person Canadian born who has not renounced British allegiance), student or otherwise. In the case of domicile in Canada is an essential condition.

(v) *The James H. Richardson Research Fellowship* in Anatomy. Value \$500 p.a., tenable for 1 yr., with possible renewal for not more than 2 addnl. yrs. Open to grads. in Med. of Toronto Univ. and of such other Univs. and Med. Schools as may be approved by the Nominating Committee and to students in Toronto Univ. who shall have completed the 3rd yr. of med. course. The holder must devote his whole time to investigation under the Prof. of Anat.

(vi.) *Charles Mickle Fellowship*. Endowment (\$25,000) awarded annually to that member of the medical profession who is considered by the Council of the Fac. of Med. of the Univ. to have done the most during the previous 10 yrs. to advance sound knowledge of a practical kind in medical art or science.

(vii.) *The Alexander McPhedran Research Fellowship* in Clin. Med. Value \$1200 p.a., tenable for 1 yr., renewable. Open to grads. in Med. of Toronto Univ. and of such other Univs. and Med. Schools as the Fac. of Med. may approve. The holder must devote his whole time to investigations under the direction of the Prof. of Med., to whom applications for nominations should be forwarded not later than May 1 of each yr.

(viii) *The Nipissing Mining Company Research Fellowship* in Mining Engin., annual value \$1100. Open to grads. of any Univ.

(ix.) A no. of appointments as Research Fellows for whole-time service for 10 months, with a stipend of \$1000, are made annually to grads. in Dentistry of any recognized Univ. Res. Fellows may be permitted to proceed to the degree of B.Sc. in Dentistry. Further particulars from the Dean of the Fac. of Dent.

### Travelling

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the Internat. Federation. Information obtainable from Mrs. John Barnett, 2244 Angus St., Regina, Sask.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE. The I.O.D.E. awards post-graduate scholarships for study in Britain. The list of post-graduate students for the session 1932-33 includes 2 girls and 7 men who come from British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, New Brunswick, Nova Scotia, Quebec, and Prince Edward Island. Address of the Order—Dominion Bank Chambers, 416 Bloor Street East, Toronto 5. Cables—Iode, Toronto.

QUEEN'S UNIVERSITY, Kingston, Ont. For Travelling Fellowship, *see above*.

## 22. AUSTRALIA

AUSTRALIAN COUNCIL FOR EDUCATIONAL RESEARCH Makes grants for research to teachers and others in Australia. The Council has been endowed for a period of 10 yrs. by the Carnegie Corporation of New York. Executive Officer: K. S. Cunningham, M.A., Ph.D., 145 Coln St., Melbourne, C.1, Australia.

AUSTRALIAN SCIENCE AND INDUSTRY ENDOWMENT FUND. Under the Science and Industry Endowment Act, 1926, the Commonwealth Government has established a capital fund, the income from which is to be used to provide assistance (a) to persons engaged in scientific research, and (b) in the training of students in scientific research. Secretary, Gerald Lightfoot, M.A., 314 Albert Street, East Melbourne, Victoria, Australia.

## 23. NEW ZEALAND

NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON, N.Z. Four National Research Scholarships, tenable for one year, and of a value of £180, plus £25 for apparatus, books, etc., are awarded each year to Univ. graduates proposing to specialize in some branch of industrial research. These scholarships may be renewed for a further year.

The NEW ZEALAND INSTITUTE, Wellington, New Zealand, established in 1867, controls 2 funds which are available for grants to aid scientific workers: the Government Research Grant Fund and Hutton Memorial Fund. It also controls 4 Memorial Funds from which prizes are awarded at intervals for distinguished scientific work. It publishes annually its *Transactions and Proceedings*

## 24. SOUTH AFRICA

CAPE TOWN UNIVERSITY. *Smartt Memorial Scholarship* for research in subjects bearing upon Agriculture. £250 p.a. for 2 yrs., but may be extended for a third year at the discretion of the Univ. Council. Tenable at the Univ. of Cape Town or at such other place in S. Africa as may be approved by the Senate. Open to candidates who possess an approved univ. degree. The next award will be made at end of 1934 or 1935. Particulars and copies of the regns. governing the award of the scholarship may be obtained from the High Commissioner for the Union of South Africa, South Africa House, Trafalgar Square, London, W.C.2.

DEPARTMENT OF AGRICULTURE, Pretoria. Scholarships in Agric., £200 p.a., open to graduates in Agric. of the S. African Univs., 18 to 25 yrs. of age, may be awarded. Tenable overseas. Further information obtainable from the Secretary for Agriculture, Union Buildings, Pretoria.

THE EMPIRE MARKETING BOARD, 2 Queen Anne's Gate Buildings,

London, S.W.1, in agreement with the Govt. of the Union of S. Africa, established in 1930 3 Research Fellowships, tenable at the Veterinary Research Station, Onderstepoort, Pretoria, for 3 yrs. with possible renewal for further 2 yrs. Value normally £800-£1000 p.a., possibly higher in sp. cases. One Fellowship relates to methods of tissue culture and work with filterable viruses; another to bacteriol. and physiological work relating to animals, esp. ruminants; and the third to methods of extracting toxic substances from plants, and determining the nature of such substances.

THE RESEARCH GRANT BOARD OF THE UNION OF SOUTH AFRICA. P.O. Box 1132, Johannesburg, awarded up to 1921 scholarships to Univ. graduates (and sometimes others) undertaking research. Since then no research scholarships have been awarded.

*Oversea Scholarships for Study of Commerce and Industries.* These scholarships are of the value of £250 per annum for periods of 2 or 3 yrs. Since its inception and up to 1929 the Board has allotted 10 of these scholarships. Since that year the award of these scholarships has been in abeyance.

*Carnegie Corporation of New York.* The Board, on the invitation of the Carnegie Corporation, is assisting in the distribution and administration of funds contributed by the Corporation in support of research in South Africa. The programme for a period of five years, from 1928 to 1932 inclusive, included, in addition to grants for research purposes, travelling allowances for men and women based on the plan of the Guggenheim Fellowships of the United States of America.

SIR HERBERT BAKER SCHOLARSHIP in Architecture, about £300 for 1 yr. Awarded at intervals. Open to all S. African students of Architecture under 30, with at least 6 yrs.' architectural training. Tenable in Europe, the greater part at the British School at Rome. Appns. to the Trustees, c/o The Registrar, Institute of S.A. Architects, P.O. Box 7322, Johannesburg.

WITWATERSRAND, UNIVERSITY OF THE, Johannesburg. *Herbert Ainsworth Scholarship* in Modern History, £150 p.a. for 2-3 yrs. (may be increased to £250 while studying in Overseas Univ.) plus £50 for books. Open to graduates of a S. African Univ. 1 yr. at Witwatersrand, free choice thereafter. Further particulars from the Registrar.

## 25. INDIA

GOVERNMENT (STATE) SCHOLARSHIPS. Two, tenable for 3 yrs. in the U.K. for advanced study. Each £300 p.a. at Oxford and Cambridge, £250 at other Univs. Bonus £40 to £50, according to place of study. Awarded in alternate years to the best Hindu and Mahomedan candidates from the Univs. of Bengal. Applications to the Registrar, Calcutta Univ.

THE MAYNARD GANGA RAM PRIZE, value Rs. 3000, for a discovery, or an invention, or a new practical method tending to increase agricultural production in the Panjab on a paying basis. Some part of

the discovery, invention, etc., must be the result of work done since the foundation of the prize in 1925. Open triennially to all, irrespective of caste, creed, or nationality. Govt. servants are also eligible. Applications in competition for the next award should reach the Director of Agriculture, Panjab, Lahore, on or before Dec. 31, 1935, from whom further particulars may be obtained.

SIR MUNGALDAS NATHUBHAI SCHOLARSHIPS in Technology (2 every yr. and an additional one every 3rd yr.). Tenable in England. Rs. 2000 p a. for 3 yrs., with possible extension. Open to Hindu graduates. Appln. to the Registrar, Univ. of Bombay.

## C. MANDATED TERRITORY

### 26. PALESTINE

HEBREW UNIVERSITY. *Lord Plumer Fellowship* in Arabic Studies (incl. Arabic Lit. and Moslem Hist., Religion, Art, and Archæol.), value £ P. 100 for 1 yr. Open to graduates of English, European or American Univs. Candidates should have a working knowledge of Hebrew, and must reside in Jerusalem for not less than 6 months. The Fellowship is granted from a donation made annually by the Friends of the Hebrew Univ. of Jerusalem in London. Further particulars from the Registrar.

## D. FOREIGN COUNTRIES

### 27. BELGIUM

FONDATION GEORGE MONTEFIORE offers triennially a prize, value 22,000 francs, "au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liège (Belgique).

### 28. FRANCE

BOURSES UNIVERSITAIRES. Five *bourses* of the value of 8000 frs., plus free tuition, have recently been established by the French Government to be awarded annually on the nomination of Vice-Chancellors and Principals to graduates of British and Irish Universities for study or research at French Universities. Nominations to be received by the Secretary, Universities Bureau of the British Empire, 88A Gower Street, London, W.C.2, by June 30. Further particulars on application.

PRIX HOLLANDAIS, 10,000 fr., and PRIX D'AULT DU MESNIL, 1800 fr., for work in physical or prehistoric anthropology, triennially, to be awarded in 1933. Institut International d'Anthropologie, 15 rue de l'Ecole de Médecine, Paris, vi.

UNIVERSITY OF PARIS. *Bourse de Curie* (Carnegie Foundation) in

Radiology, amount variable. Tenable for 1 yr., renewable, at the Pierre Curie laboratories, Paris. Open to distinguished scientists of all countries. Inquiries to be addressed to Le Doyen de la Faculté des Sciences, l'Université de Paris.

### 29. GERMANY

DEUTSCHE AKADEMIE, Munich. *Thomas Carlyle Stipendium*, value RM. 1200, for study of German culture in any Univ. of the German Republic. Open to English and Scottish graduates of either sex (actual or intending teachers) of any English or Scottish Univ. on the nomination of their Vice-Chancellor. Nominations to be received by the Secretary, Universities Bureau of the British Empire, 88A Gower St., London, W.C.1, not later than June 30.

THE JOSEFINE AND EDUARD VON PORTHEIM FOUNDATION. This fund has been established by Geheimer Hofrat Prof. Dr. Victor Goldschmidt in memory of his wife's family at the University of Heidelberg to enable English University graduates to study at the University of Heidelberg for a semester or longer. Annual value about £145. The awards, which vary in amount according to the length of time spent in Germany, are made by the Universities Bureau of the British Empire, 88A Gower St., London, W.C.1 (from which further particulars can be obtained) on the recommendation of the Vice-Chancellors and Principals of the Universities and University Colleges of Great Britain and Ireland. Recommendations will be made before June 30, 1933, for a grant in respect of next winter semester. *Thereafter this grant will be suspended.*

### 30. HOLLAND

ACADÉMIE DE DROIT INTERNATIONAL DE LA HAYE. A certain number of scholarships are awarded each yr. to persons attending the Académie who have written essays, reviews, or notable books on some branch of international law. Applications, accompanied by a copy of a scientific work published by the candidate, together with duly certified copies of Univ. or other diplomas, must be received by the President of the Curatorium before Mar. 31. Awards are made known on or about May 31. Particulars are obtainable from the Ministries of Public Edn. or profs. of internat. law in the various countries, and at the Secretariat, Peace Palace, The Hague.

VISSER INTERNATIONAL LAW PRIZE (triennial). Administered by Leyden Univ. (Legatum Visserianum). Maximum, 5000 guilders. Subject for next competition: "A critical and complete study, based exclusively on the published sources of the origin of the treaties of London of April 19, 1839 (1830-39), as well as of the international legal relations between Belgium and the Netherlands since that date." MSS. must be typewritten in German, English, French, or Dutch, bearing a motto reproduced on a sealed envelope attached containing name and address of author and must reach the Dean of the Law Faculty before Feb. 1, 1934.



## 31. JUGO-SLAVIA

JUGO-SLAV GOVERNMENT SCHOLARSHIP in History, Language and Literature of Jugo-Slavia, open to subjects of Gt. Britain. 3000 dinars a month for 2 yrs. with possible extension for another yr. Tenable in Jugo-Slavia. Applns. to the Director of the School of Slavonic and East European Studies, 40 Torrington Sq., London, W.C. 1.

## 32. SPAIN

THE SPANISH FEDERATION OF UNIVERSITY WOMEN offers an annual Fellowship of 4000 pesetas tenable for study in Spain, and open to members of the Internat. Federation. Applications to be received by May. Information obtainable from the Secy., International Federation of University Women, Crosby Hall, Cheyne Walk, London, S.W.3.

## 33. SWEDEN

NOBEL PRIZES, founded by Alfred Nobel (d. 1896), awarded for contributions to the common good by workers in (a) *Physics*, (b) *Chemistry*, (c) *Medicine or Physiology*, (d) *Literature*, (e) *The Preservation of Peace*. The prizes, worth from Kr. 115,000 to Kr. 171,750 (1932) each, are awarded for (a) and (b) by the Swedish Academy of Science, for (c) by the Stockholm Faculty of Medicine, for (d) by the Swedish Academy of Literature, and for (e) by a committee elected by the Norwegian Storting. Among the categories of persons qualified to propose candidates for prize (e) are Univ. Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Sturegatan 14, Stockholm, Sweden. Among prize-winners of past years the following have a special interest for English-speaking students:

*Physics*: 1904, Lord Rayleigh; 1906, J. J. Thomson; 1907, A. A. Michelson; 1915, W. H. Bragg and W. L. Bragg; 1917, Ch. G. Barkla; 1923, R. A. Millikan; 1927, A. H. Compton and C. T. R. Wilson; 1928, O. W. Richardson; 1930, Sir Venkata Raman.

*Chemistry*: 1904, Sir Wm. Ramsay; 1908, E. Rutherford; 1914, T. W. Richards; 1922, F. Soddy, F. W. Aston; 1929, A. Harden; 1930, Hans Fischer; 1932, Irving Langmuir.

*Medicine or Physiology*: 1902, Sir Ronald Ross; 1912, Alexis Carrel; 1922, A. V. Hill; 1923, F. G. Banting and J. J. R. Macleod; 1929, Sir F. Gowland Hopkins; 1932, Sir Chas. S. Sherrington and E. D. Adrian.

*Literature*: 1907, Rudyard Kipling; 1913, Rabindranath Tagore; 1923, W. B. Yeats; 1925, G. B. Shaw; 1929, Thomas Mann; 1930, Sinclair Lewis; 1932, John Galsworthy.

*The Preservation of Peace*: 1903, Sir W. R. Cremer; 1906, Theodore Roosevelt; 1912, Elihu Root; 1919, W. Wilson; 1925, Sir Austen Chamberlain and General Ch. G. Dawes; 1926, Aristide Briand and Gustav Stresemann; 1929, Frank B. Kellogg; 1932, Miss Jane Addams and Dr. Nicholas Murray Butler.

## 34. UNITED STATES OF AMERICA

THE INSTITUTE OF INTERNATIONAL EDUCATION, 2 West 45th Street, New York, has published a pamphlet entitled, *Fellowships and Scholarships open to Foreign Students for Study in the United States*, 1931 edition, which gives a very full list of such aids to advanced study. They are classified as follows: (i.) Unrestricted as to subject or nationality of holder; (ii.) for study in prescribed subjects, unrestricted as to nationality, and (iii.) for students from prescribed places.

In class (i.) there are more than 200 Fellowships for advanced study and research offered by 26 different Universities, and varying in value from free tuition to \$1500 a year. A number of Colleges and Universities (15) also offer student assistantships in various subjects open to qualified students of foreign birth. In class (ii.) there are several hundred Fellowships principally for research offered by the chief Universities and other learned bodies. In class (iii.) Fellowships for Research are offered to *Canadian* students by the American Council of Learned Societies, the National Research Council, the National Council of Parent Education, the Social Science Research Council, the Canadian Federation of Univ. Women, and the Pacific Coast Gas Assn. Fellowships for advanced study and research are offered to students in *Great Britain* by the American Association of Univ. Women, the Commonwealth Fund and the Rockefeller Foundation, as well as several of the large Univs. The list from which the above information is taken may be consulted at the Universities Bureau or at the American University Union, 1 Gordon Square, London, W.C.1.

Nearly all the American Univs. offer each year scholarships and junior fellowships of from \$200 to \$800, which are open to foreign students in competition with American students for work which would be described as undergraduate in this country. Most American Univs. close their scholarship lists about March 1. The principal foundations offering Fellowships to British subjects for which application can be made in this country are briefly described below.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN, 1634 I Street, Washington, D.C., offers annually an International Fellowship, value \$1500, to enable a graduate to carry on a yr.'s research in some country other than her own. Open to members of any one of the 35 Nat. Fedns. belonging to the Intern. Fedn. of Univ. Women. Further information from the Secy., British Federation of University Women, Crosby Hall, Cheyne Walk, S.W.3; or from the above.

CARNEGIE ENDOWMENT FOR INTERNATIONAL PEACE. Fellowships in International Law, tenable wherever approved courses are offered. \$1500 plus \$300 passage money for Teachers; \$1000 for students. Open to graduates having knowledge of Intern. Law. Teachers should have had at least 1 yr.'s teaching in Intern. Law or related subjects. Applications to Committee on International Fellowships, 700 Jackson Place, Washington, D.C., U.S.A.

CHOATE MEMORIAL FELLOWSHIP, \$2300. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British

subject coming from Camb. to study in any dept of Harvard Univ. Failing a candidate from Camb. the Vice-Chancellor may select and appoint a candidate from any other Univ. in the U.K.

**COMMONWEALTH FUND FELLOWSHIPS**, established 1925. Twenty-five awarded annually. Value about \$3000 each p.a., tenable ordinarily for 2 yrs. in one of the 27 institutions belonging to the Association of American Universities (*see* list in Appendix XXVI.). Candidates (who must be unmarried and not over 30 years of age) are nominated by universities in Great Britain and Ireland, and the final selections made by a Committee of Award, of which H.R.H. the Prince of Wales is Honorary Chairman, and Sir Walter R. Buchanan-Riddell, Chairman. Among other conditions of tenure is a requirement that at least 3 months must be spent in travel in the U.S.A. at the close of the first year of study. Address of Committee—35 Portman Square, London, W.1.

**ENGLISH-SPEAKING UNION'S SCHOLARSHIPS**. For British men and women teachers. *Page Travelling Scholarships*, £50 each and complete hospitality in America during Easter or summer vacation; Senior *Page Scholarship*, women only, £100. Similar scholarships given by the A.A.M. and N.U.T. to the value respectively of £70 and £50 are open to candidates from those organizations. *Chautauqua Scholarships*, women only (2), for the summer school, July and August, in the State of New York; covering cost of lectures and complete hospitality for 6 weeks. Applications receivable up to Feb. 25 by the E.S.U., Dartmouth House, 37 Charles St., Berkeley Sq., London, W.1.

**ROCKEFELLER FOUNDATION FELLOWSHIPS** for research in the social sciences, tenable in U.S.A., France, Germany, Italy, and certain other countries. Intended primarily for graduates, men or women (25-35 yrs. of age), who have begun research and may be expected to produce important work in econ., sociol., statistics, administration; or, in certain cases, anthropol., geog., hist., and law, psychol. The regular stipend is \$1800 *plus* travelling expenses (in America) and univ. fees. Fellowships may be given for one, and in certain cases are renewable for a second yr. *Applications are not invited from candidates*. The procedure preferred is that the responsible academic or other authority, who knows the candidate's work and wishes to nominate him, should write to the Foundation's representative for Gt. Britain and Ireland, N. F. Hall, University College, Gower St., London, W.C.1.

**ROSE SIDGWICK MEMORIAL FELLOWSHIP**. Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value \$2000 (providing tuition and residence during term for 1 yr., and about \$400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. Open to women graduates who should be not more than 35 years of age and who are natives of Gt. Britain. Awarded biennially. Particulars from Secy., British Federation of Univ. Women, Crosby Hall, Cheyne Walk, London, S.W.3.

## XXIV

### CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

#### A. IN GREAT BRITAIN

##### CENTRES OF SCIENTIFIC RESEARCH

##### I. Botany and Agriculture.

- (a) Soils and Crops (England and Wales).  
(Scotland).  
(Northern Ireland).

- (b) Horticulture.

- (c) Animal Pathology (England and Wales).  
(Scotland).  
(Northern Ireland).

- (d) Animal Husbandry (England and Wales).  
(Scotland).  
(Northern Ireland).

- (e) Agricultural Economics.

- (f) Food Preservation and Transport.

- (g) Agricultural Engineering.

##### II. Forestry.

##### III. Fisheries and Preservation of Fish.

##### IV. Tides and Meteorology.

##### V. Industrial.

##### VI. Pure Science.

##### VII. Medical.

##### CENTRES OF SCIENTIFIC INFORMATION

##### VIII. Botany and Agriculture.

- IX. Industrial (England and Wales).  
(Scotland).

##### X. Pure Science.

##### XI. Medical.

#### B. IN THE DOMINIONS, COLONIES AND DEPENDENCIES

##### CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

##### I. Canada.

##### II. Australia.

- III. New Zealand.
- IV. South Africa.
- V. India.
- VI. Ceylon.
- VII. Malaya.
- VIII. East Africa—Tanganyika Territory.
- IX. Sudan.
- X. West Indies—Trinidad.
- XI. Bermuda.

### C. INTERNATIONAL SETTLEMENT

- XII. Shanghai.

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## A. IN GREAT BRITAIN

### CENTRES OF SCIENTIFIC RESEARCH

#### I. BOTANY AND AGRICULTURE.

Some description is given under this head of the principal centres in the U.K. for advanced study and research in Agricultural Science and the cognate pure sciences, but much fuller information will be found in a brochure published by the Ministry of Agriculture and Fisheries at the instance of the Imperial Agricultural Research Conference, 1927, entitled *Facilities for Advanced Study and Research in Agricultural Science and Cognate Pure Sciences in the United Kingdom*. 1929. Price 1s. net. Post free.

#### (a) *Soils and Crops (England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal work carried out is systematic and economic botany within the British Empire. Plants of economic importance are grown in the gardens and sent out to various parts of the Empire. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director for permission to work in the Herbarium or in the Laboratory.

2. IMPERIAL MYCOLOGICAL INSTITUTE, see p. 837.

3. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops by discovering and encouraging the use of better varieties and better seeds. The two main branches of the work are (a) Crop Improvement, covering field trials of farm crops at six regular sub-stations in England and Wales, and occasionally at other centres,

the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease, virus disease investigations, and general potato trials; (b) Official Seed Testing Station for England and Wales at Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. In approved cases facilities would be given for post-graduate research. Reports of work done are issued in the Institute's *Journal*. Periodical meetings of Fellows of the Inst. are held for discussion, etc. A course and examn. in the theory and practice of seed testing is usually held each summer; fee for course (four to five weeks), £5 : 5s.; for examn., £1 : 1s. Inquiries to be addressed to the Secretary

4. THE ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts, founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives capital funds for approved purposes. The Station is organized into the following 10 depts.: Bacteriol., Bot., Chem., Fermentation, General Micro-Biol., Insecticides and Fungicides, Physics, Plant Pathol. (mycology), Plant Pathol. (entomology), Statistics. The station has an area of 300 acres of land for the purpose of farm and experimental fields, and a library of 15,000 vols.

Subject to certain conditions, the Station receives post-graduate students, scholarship holders, etc., who are working for higher research degrees in agric. or pure science. No fees are charged to voluntary workers for the supervision of their work, but a charge will be made for the supply of apparatus, chemicals, etc.

All inquiries in the first instance should be addressed to the Secretary.

The WOBURN EXPERIMENTAL STATION now forms part of the Rothamsted organization; it consists of 138 acres of land, mainly light soil, Laboratory, Pot Culture, and Meteorological Stations.

In May 1929, as a result of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF SOIL SCIENCE was set up at Rothamsted as a central clearing house of information on soil problems throughout the Empire.

Provision is made for post-graduate research work, and for studies by agriculturists and others on leave from Agricultural Departments in the Empire.

5. RESEARCH INSTITUTE OF PLANT PHYSIOLOGY, Imperial College of Science and Technology, South Kensington, London, S.W.7. The work of the Institute is mainly directed to the elucidation of the plant physiological processes responsible for crop yield in the field and under glass. It works in close association with the Research Institutes at Rothamsted and East Malling. It is available for research in general plant physiology, chemical physiology, and the physiology of fungi. The laboratories are well equipped on the chemical and electrical sides and also for experiments on the growth of plants under artificial light and controlled temperatures. Requests for admission, together with a full

account of academic qualifications and training, should be sent to the Director.

6. **PLANT BREEDING INSTITUTE, Cambridge.** The main work of the Institute is connected with the problems of breeding improved types of the plants cultivated as farm crops in this country. Up to the present most progress has been made with cereal crops, but preliminary work on the possibilities of improving many other crops is being carried out, including brassicæ and the raising of seed potatoes free from various virus diseases. There are also facilities for research work in methods for testing the yielding capacity of crops; factors affecting yield; winter hardiness in barley and oats; the quality of wheat for bread, biscuit, and pudding making; disease resistance, etc. The experiment grounds are equipped with bird-proof cages for the protection of the more important hybrid cereals, with greenhouses, storage rooms, and a small machine room.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF PLANT GENETICS, for crops other than herbage plants, has been established at the Institute for the collection and dissemination of information on this subject throughout the Empire.

Inquiries to be addressed to the Director of the Inst.

7. **WELSH PLANT BREEDING STATION, University College, Aberystwyth.** This Station conducts researches related to plant breeding especially for farmers in high rainfall districts, at high elevations, and generally under conditions of low fertility. Chief attention is therefore given to herbage plants, with a view to producing high yielding, persistent, and leafy strains of certain grasses and clovers. Oats is the only ordinary arable crop receiving serious attention. The station is well equipped for research in the foregoing directions. There is a 2-yrs.' course for graduates studying for the Ph.D. degree. Members of staffs of research or teaching institutions and of the Govt. Departments of Agriculture are admitted for shorter periods. Applications should be addressed to the Director, Agricultural Buildings, Alexandra Road, Aberystwyth, as long as possible in advance of proposed entry.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF PLANT GENETICS, for herbage plants, has been established at the Institute for the collection and dissemination of information on this subject throughout the Empire. The Bureau issues *Herbage Extracts* quarterly.

Besides the Agricultural Depts. of the Univs. in Gt. Britain and N. Ireland, and agricultural colls. which are constituent parts of Universities, such as the South-Eastern Agricultural College, Wye (Univ. of London), the following independent colls. undertake research work.

8. **HARPER ADAMS AGRICULTURAL COLLEGE, Newport, Salop,** provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology or Economics in their application to Agri-

culture. THE NATIONAL INSTITUTE OF POULTRY HUSBANDRY is located at the College, and provides extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science*, *Bio-Chemical Journal*, and *Annals of Applied Biology*. Inquiries to be addressed to the Principal.

9. MIDLAND AGRICULTURAL COLLEGE, Sutton Bonnington, Loughborough, Leicestershire. Visitors admitted for research work in the Chemistry Laboratories, or in dairying or costings, at 63s. per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time. Prospectus free; apply to the Principal.

10. SEALE-HAYNE AGRICULTURAL COLLEGE, Newton Abbot, Devon. On the College Estate of 339 acres, a commercial farm of 250 acres is maintained, as well as a demonstration small-holding of 25 acres. There is a Forest Nursery, Cider stock-raising plot, and breeding trials on Roscoff broccoli. Research work is carried out in connexion with insect and fungus pests, soil problems, Economic investigations, Dairy bacteriology, and certain specific animal diseases, such as Johnes disease, mammitis, and contagious abortion. The college farm specializes in the production of Certified milk. Experts from overseas proposing to visit the College will be welcome, and arrangements can be made for them to work there temporarily. Results of experiments are published from time to time in pamphlets.

### *Soils and Crops (Scotland)*

Persons wishing to avail themselves of the resources of any of the following centres (a) 11-16, (c) 7, (d) 5-7, should call in the first instance for suggestions and advice on the Department of Agriculture for Scotland, Queen St., Edinburgh.

11. MACAULAY INSTITUTE FOR SOIL RESEARCH, Craigiebuckler, Aberdeen. The Institute, which was established through the generosity of Mr. T. B. Macaulay of Montreal, consists of laboratories and experimental grounds at Craigiebuckler, Aberdeen, and a demonstration farm on peat land at Arnish Moor, Island of Lewis. It is the national soil research station for Scotland, and is under the management of a Joint Committee nominated by the three Scottish Agricultural Colleges, the University of Aberdeen, and the Department of Agriculture for Scotland. Particular attention is paid to the study of moorland and heath soils and to problems of drainage and manuring. Facilities for research are offered and applicants are invited to communicate with the Director.

12. THE SCOTTISH SOCIETY FOR RESEARCH IN PLANT BREEDING (Station at Corstorphine, Midlothian) was established to promote the discovery and the creation of improved races of crop plants adapted to Scottish conditions. Applications from voluntary workers to the Director of Research will receive consideration.

13. SEED TESTING AND PLANT REGISTRATION STATION (Dept. of



Agriculture for Scotland), East Craigs, Craigs Road, Corstorphine, Edinburgh. Investigations are carried out in analyses of crops and grasses and clovers, especially the authentic character of wild white clover; also immunity testing of potatoes and their distinguishing characters. Overseas students may participate in the work of the Station.

14. EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, 13 George Square, Edinburgh. Facilities are provided for post-graduate research work in soil science, agricultural bacteriology, and agricultural botany. Workers possessing the requisite qualifications may be entered for the Ph.D. degree of Edinburgh University.

15. NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen. Experiments on farm crops on the college farm at Craibstone, near Aberdeen; research work in entomology and agricultural economics; results of experiments and research published in bulletins.

16. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Square, Glasgow. Applications by experts employed by the Government or Industrial Corporations in the British Empire overseas for permission to visit the College or for copies of bulletins will receive attention.

### *Soils and Crops (Northern Ireland)*

Persons wishing to avail themselves of the resources of any of the following centres (a) 17-19, (c) 8, (d) 8-11, should call in the first instance for suggestions and advice on the Ministry of Agriculture for Northern Ireland, Belfast; and of centre (f) 1 and 2 on the Dept. of Scientific and Industrial Research, 16-18 Old Queen St., London, S.W.1.

17. CHEMICAL [AND ANIMAL NUTRITION] DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. Research work falls into two main sections: (i.) Animal Nutrition (*see* (d) 8 below); (ii.) Soil and fertilization problems. There is an Agricultural Research Station for crops and stock with a farm of 500 acres at Hillsborough, Co. Down.

18. PLANT BREEDING RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. The Division is concerned with the production of improved varieties of the agricultural crops of N. Ireland. Hitherto most time has been devoted to oats and flax.

19. SEED-TESTING AND PLANT DISEASES DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. The chief investigations of this Division relate to potato and flax diseases, fruit diseases and pests, gooseberries (American gooseberry mildew), forestry diseases, and celery leaf spot.

### *(b) Horticulture*

1. LONG ASHTON FRUIT RESEARCH STATION (Univ. of Bristol), Long Ashton, nr. Bristol. The work of the Station is the investigation of

problems relating to (i.) fruit culture; (ii.) diseases of horticultural crops, especially fruit crops; (iii.) fruit preservation and production, incl. cider making and the storage of fruits; (iv.) willow cultivation and the utilization of osiers. The Station is also an advisory centre on these subjects. Adjoining the Station is a farm of c. 268 acres, about one-half of which is suitable for experimental work. At the associated FRUIT AND VEGETABLE CANNING RESEARCH STATION, Chipping Campden, Glos., the main research is the investigation of problems relating to the commercial canning of fruits and vegetables. Intending workers should apply to the Director, stating subject of work proposed and probable length of study.

2. EAST MALLING RESEARCH STATION, Kent. (The Kent Incorporated Society for Promoting Experiments in Horticulture.) Research work is being carried out in pomology, hop culture, plant pathology, physiology, bio-chemistry, and entomology. Besides issuing an Annual Report, the Institute publishes most of the results of its investigations in the quarterly *Journal of Pomology and Horticultural Science*. From time to time facilities are offered to graduate students for gaining experience in research in these problems, both in the field and laboratories. The Research Station is accepted by the Univ. of London as an instn. at which teachers may be recognized for the instruction of students pursuing courses of advanced study and research. Applications, with full details of qualifications and subjects of study proposed, to be addressed to the Director.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF FRUIT PRODUCTION has been established for the collection and dissemination of information on this subject throughout the Empire. A quarterly journal, *Horticultural Abstracts*, is issued dealing with deciduous, tropical and sub-tropical fruit, and other perennial crops.

3. HORTICULTURAL RESEARCH STATION (Camb. Univ.), University Farm, Huntingdon Road, Cambridge. The Station is controlled by the Director and a committee of fruit and vegetable growers. The chief investigations at present are the breeding of improved varieties of Brussels sprouts, broccoli, cauliflower, onions, peas, and parsnips; also a comprehensive series of investigations on the physics of spraying fluids.

4. EXPERIMENTAL AND RESEARCH STATION, Turner's Hill, Cheshunt, Herts. In the centre of the Lea Valley Glasshouse district. The aim of the Station is to investigate the many problems connected with the commercial cultivation of glasshouse crops. Advisory work is an important feature. Research workers are admitted to the laboratories for short periods when space is available. Reports are widely circulated. All inquiries should be addressed to the Director.

5. HORTICULTURAL COLLEGE FOR WOMEN, Swanley, Kent, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries are welcome. Inquiries to be addressed to the Principal.

(c) *Animal Pathology (England and Wales)*

1. THE BROWN ANIMAL SANATORY INSTITUTION, 149 Wandsworth Road, London, S.W.8. (See p. 135.)

2. RESEARCH INSTITUTE IN ANIMAL PATHOLOGY (Royal Veterinary College, London), Great College St., Camden Town, N.W.1. The aim of the Institute is to extend knowledge regarding the diseases of farm animals. The principal work undertaken hitherto has been concerned with contagious abortion in cows and mares, joint-ill in foals, Johne's disease, mastitis in cows, parasitic gastritis in ruminants, and anaerobic diseases of sheep. The present research in the Institute is chiefly bacteriological. Owing to impending reorganization there is at present no accommodation for research workers.

3. INSTITUTE OF ANIMAL PATHOLOGY (Camb. Univ.), Cambridge. It has a field station in Milton Road, Cambridge. The Institute is working almost entirely on the diseases of farm animals. Special attention has been given to a variety of sheep diseases. Arrangements are made for courses of advanced study and research for Colonial veterinary officers and others who may desire them. Provision is also made for visitors to carry out specific investigations.

4. VETERINARY LABORATORY (Ministry of Agriculture and Fisheries), New Haw, Weybridge, Surrey. The aim of this Institution is to apply laboratory methods to the diagnosis of disease and to conduct research into problems of aetiology and prophylaxis. The laboratory has excellent facilities for experimental work on the larger farm animals. A limited number of post-graduate workers can be received. The Foot and Mouth Disease Station for experiments with large animals is at Pirbright, some 10 miles from New Haw.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927 the IMPERIAL BUREAU OF ANIMAL HEALTH for the collection and dissemination of information on this subject throughout the Empire has been established at the Laboratory. The Bureau publishes the *Veterinary Bulletin* monthly, and is compiling a full index of current literature relating to animal disease.

5. THE MOLTENO INSTITUTE FOR RESEARCH IN PARASITOLOGY, CAMBRIDGE. *Telegrams*—Cambridge, 177. This Institute was founded by Mr. and Mrs. Percy A. Molteno for the advancement of knowledge of parasitology in all its branches. Opened in 1921. There are 13 research rooms, a museum, special library, photographic room, accommodation for smaller animals and an aquarium room, etc., and, if required, facilities for work on parasitic affections of larger animals may be obtained at the Univ. Field Laboratories. It is also well provided with apparatus and appliances for research upon the biology and morphology of parasites. The extensive collections of parasites (Vermes, Insecta, Acarina, Protozoa, Fungi) are accessible for study, the most notable being the Nuttall collection of Ticks, which, besides being rich in types is one of the largest existing.

The scope of the work carried on is broadly biological, extending beyond the limitations set by professional schools, either medical or veterinary, in zoological and botanical laboratories, or in conjunction with agriculture and fisheries. Purely scientific as well as practical problems are dealt with.

Research workers, including those coming from the outside, may be admitted on application to the Director of the Institute. The ordinary fee for research students is five gs. a term and two and a half gs. during six weeks of the Long Vacation (total £18 : 7 : 6 p a.).

6. INSTITUTE OF AGRICULTURAL PARASITOLOGY (London School of Hygiene and Tropical Medicine), Winches Farm, Hatfield Road, St. Albans, Herts. The Institute specializes in the morphology, life histories, and bionomics of the internal parasites of domesticated animals, farm stock, poultry, and fur animals, and of the allied eel worms which infest plants of economic importance. Facilities for advanced study and research are available for overseas workers in the various depts. of the London School of Hyg. and Trop. Med. Applications for detailed information should be made to the Secretary, London School of Hyg. and Trop. Med., Keppel Street, London, W.C.1.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927 the IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY for the collection and dissemination of information on this subject throughout the Empire has been established at the Institute.

#### *Animal Pathology (Scotland)*

7. ANIMAL DISEASES RESEARCH ASSOCIATION, Moredun, Gilmerton, Edinburgh, and a suite of laboratories at the Royal (Dick) Veterinary College. Research has been principally directed to the diseases of sheep. Investigations are also in progress on grass disease in horses, bovine contagious abortion and milk fever, and lactation tetany in cows. Visiting workers are expected to defray the cost involved in any special work.

#### *Animal Pathology (Northern Ireland)*

8. ANIMAL DISEASES DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. Research is carried on into sterility in cattle, anti-tuberculosis vaccination, pneumonia in pigs, and diseases of poultry and sheep.

#### *(d) Animal Husbandry (England and Wales)*

1. ANIMAL NUTRITION RESEARCH INSTITUTE (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. There is a branch laboratory on the University Farm, Huntingdon Road. The work of the Institute falls under two main heads: (1.) nutrition proper; (2.) the physiology of reproduction and growth. Members of the staffs of teaching institutions or of Govt. Depts. of Agriculture are admitted for short courses. The full course covers two or three yrs. Applications should be directed to the Secretary, School of Agriculture, Cambridge, as long as possible before proposed arrival.

2. NATIONAL INSTITUTE OF POULTRY HUSBANDRY (Harper Adams Agricultural College, Newport, Salop. (*See* (a) 8 above) The Institute carries out large scale experimental work on the breeding, feeding, management, and housing of poultry and other small live stock. Inquiries to be addressed to the Director.

3. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING (Univ. of Reading), Shinfield, near Reading, was established in 1912, and is devoted to research in the production, handling, and distribution of milk and the manufacture of dairy products. The work is organized in four main departments : (a) dairy husbandry ; (b) dairy bacteriology ; (c) dairy chemistry ; (d) physiology. In addition to laboratories, the Institute possesses an experimental farm and a dairy in close proximity to the laboratories. A limited number of post-graduate workers can be received for a two or three years' course. Voluntary workers may be admitted for shorter periods. Applications for admission should be addressed to the Director of the Institute.

4. SMALL ANIMAL BREEDING RESEARCH INSTITUTE (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. Field work at Univ. Experimental Farm, Huntingdon Rd., Cambridge. The work includes genetical problems relating to rabbits and poultry. A limited no. of applns. could be considered from visiting research workers who wished to spend a short period working in the Inst. Applns. should be addressed to the Secretary, School of Agric.

### *Animal Husbandry (Scotland)*

5. ROWETT RESEARCH INSTITUTE, Bucksburn, Aberdeen. The Institute is devoted to research on the chemistry and physiology of nutrition and allied subjects, including nutrition in relation to disease, and the application of nutrition in stock feeding and in human dietetics. There is laboratory accommodation for between 30 and 40 workers. Attached to the Institute is an experimental farm of 600 acres, with buildings designed for feeding experiments.

THE IMPERIAL BUREAU OF ANIMAL NUTRITION has been established in connexion with the Institute. A journal, *Nutrition Abstracts and Reviews*, is published under the joint supervision of the Imperial Agricultural Bureaux Council, the Medical Research Council, and the Reid Library, which is attached to the Institute.

Post-graduate research workers are admitted, and work at the Institute is recognized for doctorate degrees at Aberdeen Univ. Adjoining the Institute is Strathcona House, the headquarters of a residential club known as the Strathcona Club. Workers or visitors from the Dominions are made members of the residential club and given the first claim to bedroom accommodation.

6. HANNAH DAIRY RESEARCH INSTITUTE, Kirkhill, nr Ayr. This Institute was established in 1928 for the study of problems relating to the production and distribution of milk, and the manufacture of dairy products. At present work is being concentrated along biological lines, particularly as regards the physiology of milk secretion, the nutrition

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of the dairy cow, and the relation of bovine infection to human disease. Work is also being undertaken on problems connected with evaporative and drying processes in connection with milk products.

The Institute possesses laboratory accommodation for workers in physiology, bio-chemistry, pathology, and bacteriology, while opportunity for investigations in animal husbandry is available on the Institute's dairy farm. Applications for permission to work in the laboratories should be addressed to the Director.

7. INSTITUTE OF ANIMAL GENETICS (Edinburgh Univ.), King's Buildings, West Mains Road, Edinburgh. The Institute aims at securing and disseminating knowledge relating to the physiology of reproduction and of inheritance, with special ref to animals of economic importance. The equipment comprises an Experimental Farm near Edinburgh, and at the Institute itself are numerous animal houses where animals under direct observation are kept. Accommodation is provided for graduates proceeding to a higher degree at Edinburgh Univ. and for officers of the Colonial Agricultural and Veterinary services. Senior research workers may work at their own problems. Applications for admission should be made to the Secretary to the Institute.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF ANIMAL GENETICS was established at the Institute of Animal Genetics for the collection and dissemination throughout the Empire of information bearing on this subject.

### *Animal Husbandry (Northern Ireland)*

8. [CHEMICAL AND] ANIMAL NUTRITION DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. (See (a) 17 above.) The Division is working on the production of "baby beef," milk production, the rearing of calves for "baby beef" production, the feeding of pigs, and, in collaboration with the Rowett Research Institute, on the effect of feeding on birth-rate, mortality and growth of lambs. Experimental work is also going on in regard to poultry in collaboration with the Rowett Research Institute and the Poultry Depts. of the Scottish Agricultural Colleges. An experimental plant for poultry nutrition has been established at Hillsborough, Co. Down, in connexion with the work of the Division.

9. [CROP AND] ANIMAL HUSBANDRY RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Agricultural Research Institute of N. Ireland, Hillsborough, Co. Down.

10. AGRICULTURAL RESEARCH INSTITUTE, Hillsborough, Co. Down. The Institute consists of (a) an experimental farm of 500 acres mainly devoted to work in animal nutrition; (b) a poultry plant with a capacity for 3000 birds devoted to research work in nutrition. The Institute is under the management of a Board of Trustees representative of the Ministry of Agriculture, the Queen's University Faculty of Agriculture, the Ulster Farmers' Union, and the Ulster Agricultural Organization Society.

II. DAIRY BACTERIOLOGY DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. This Division is in its initial stages. The main work falls under two heads: (i.) Graded milk; (ii.) Creameries. The Division will devise methods for the improvement and control by creameries of butter, and a uniform standard quality. It also affords advisory services in connexion with bacteriological problems.

### (e) *Agricultural Economics*

AGRICULTURAL ECONOMICS RESEARCH INSTITUTE (Oxford Univ.), Parks Road, Oxford. The work of the Institute embraces research into the problems of Farm Management and Agricultural Organization in all their aspects. The Institute is open to post-graduate students with a standing entitling them to read for the B Litt, B Sc, or D Phil. of Oxford Univ. and who intend to study for one of these research degrees. Inquiries should be addressed to the Secretary.

### (f) *Food Preservation and Transport*

1. LOW TEMPERATURE STATION FOR RESEARCH IN BIO-CHEMISTRY AND BIO-PHYSICS (Dept. of Scientific and Industrial Research in conjunction with Camb. Univ.), Cambridge. (See V. 8 below.) The work in progress falls under the following heads: (i.) Plant problems; (ii.) Animal problems; (iii.) Fungal and bacteriological problems; (iv.) Canning problems; (v.) Biological engineering problems; (vi.) Problems of salting and smoking.

2. DITTON LABORATORY (Dept. of Scientific and Industrial Research), East Malling, Maidstone, Kent. Research is carried out on the storage and transport of fruit and vegetables and on problems of biological engineering. The laboratory includes an experimental refrigerated ship's hold with a capacity of 120 tons.

3. FRUIT AND VEGETABLE PRESERVATION RESEARCH STATION, Chipping Campden, Glos. (See (b) 1 above.)

### (g) *Agricultural Engineering*

INSTITUTE FOR RESEARCH IN AGRICULTURAL ENGINEERING (Univ. of Oxford), 37A St. Giles, Oxford. The aim of the Institute is to undertake research in all depts. of agricultural engineering. These include: (i.) The intensive use of machinery on the farm (Power Farming), with sp. attention to sources of power (tractors, etc.), and to modern methods of farming (combine harvester-thresher, etc.); (ii) The use of electricity on the farm; (iii.) Field drainage. The Institute also conducts tests under the Ministry of Agriculture's Testing Scheme and answers inquiries relating to agricultural engineering and machinery. Inquiries to be addressed to the Director.

## II. FORESTRY.

IMPERIAL FORESTRY INSTITUTE, Oxford, see p. 232.

### III. FISHERIES.

Persons wishing to avail themselves of the resources of any of the following centres 1, 2, 4, 5 and 7 should call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries, 43 Parliament St., London, S.W.1; for centres 9 and 10 on the Fishery Board for Scotland, 101 George St., Edinburgh; and for centre 11 on the Dept. of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1.

1. MARINE BIOLOGICAL ASSOCIATION. A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. *The Ray Lankester Fund* provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. There are two posts of Student Probationer open to Honours graduates, each tenable for 2 yrs. at £200 p.a., but only one in 1933. For full particulars application should be made to the Director of the Laboratory, Citadel Hill, Plymouth, Devon.

2. DOVE MARINE LABORATORY, Cullercoats, Northumberland. The Laboratory is under the control of the University of Durham, and is well fitted for research in marine zoology and botany. There is a sea-going motor-boat. Application for tables should be made to the Hon. Director, Professor A. D. Hobson, Zoological Department, Armstrong College, Newcastle-on-Tyne. Special facilities for post-graduate research.

3. MARINE BIOLOGICAL STATION, PORT ERIN, Isle of Man (Dept. of Oceanography, Liverpool Univ.). This sea-board station for biological research includes 2 large class-rooms or laboratories; a well-equipped biochemical laboratory, 14 small working rooms, library, dark-room and stores, workshops; an aquarium and small museum; and a fish-hatchery and open-air ponds. Accommodation is provided for both undergraduate students and investigators at all times in the year. Application for workplaces should be made to Mr. W. C. Smith at the Station. A limited no. of research (post-graduate) students can also be accommodated at the Dept. of Oceanography at the Univ. Application to be made to the Registrar.

Accommodation for students and researchers in Marine Biol., particularly on the Biochemical side, is provided at the Station. Applns. as above.

4. FISHERIES LABORATORY, Lowestoft. The main Laboratory of the Fisheries Department of the Ministry of Agriculture and Fisheries, well equipped for deep sea research. A research trawler and a motor-boat are kept in commission during the greater part of the year. There is no special provision for outside workers, but duly accredited persons interested in fishery research will be given facilities on application to the Director.

5. FISHERIES EXPERIMENT STATION, Castle Bank, Conway.



Equipped by the Fisheries Department (Ministry of Agric. and Fisheries) for shellfish research, especially in connexion with sewage pollution and artificial breeding. Accommodation for outside workers is limited. Application should be made to the Director.

6. FISHERIES RESEARCH DEPT., UNIVERSITY COLLEGE, Hull A Fisheries Research section is conducted under the directorship of Prof. A. C. Hardy in the Dept. of Zoology and Oceanography, with the assistance of two research biologists and the Leverhulme Fellow in Fisheries Research. A grant has also been made by the Fishmongers' Company. A scheme of research, which concerns the distribution of plankton in relation to that of fish, particularly the herring, is being carried out in co-ordination with the researches of the International Council for the Exploration of the Sea. The cost of maintenance is borne largely by the Development Commission and the Viscount Leverhulme Trustees, with grants in aid from the Fishmongers' Company and the Hull Fishing Vessel Owners' Assn. Facilities are offered to post-graduate research workers. Applications to the Registrar.

7. FISHERIES RESEARCH STATION, Alresford, Hants. A small laboratory on the river Itchen, maintained by the Fisheries Department (Ministry of Agric. and Fisheries) for work on freshwater ecology in relation to pollution. Accommodation for outside workers is very limited.

8. THE FRESHWATER BIOLOGICAL ASSOCIATION OF THE BRITISH EMPIRE The Laboratory of the Association is in Wray Castle on the west shore of Windermere. There is a resident staff of two Naturalists. The Laboratory is equipped for hydro-biological work, both in the streams and rivers, and on the Lake. There is a specially equipped launch for work on the Lake. Visiting research workers may make use of the facilities of the Laboratory, and accommodation (both board and lodging) can be provided in Wray Castle. A certain number of research tables at the Laboratory are provided free of cost to workers on the nomination of subscribing Univs. Applicants should write to the Naturalists in Charge, The Laboratory, Wray Castle, Ambleside, Westmorland.

(Scotland)

9. FISHERY BOARD FOR SCOTLAND. The Marine Laboratory, Wood St., Torry, Aberdeen, and the Marine Aquarium, Bay of Nigg, Aberdeen, are Govt. fishery and marine biology establishments. Two vessels fitted with modern apparatus are in commission for the greater part of each year: (a) the steamship *Explorer* engaged in deep-sea work (incl. trawling) in Scottish and North Atlantic waters, and (b) the motor-boat *Enid* employed in surveying coastal areas. One or two outside research workers may be accommodated, but no sp. provision for such exists. The Board's Scientific Supt. is Alexander Bowman, D Sc., F.R.S.E., who is also Lectr. on The Scientific Study of the Fisheries at Aberdeen Univ.

10. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, Scotland, admits students and research workers; table space rental 10s. 6d. per

week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available. Trade dept. for sale of specimens. For full particulars apply to the Superintendent, Marine Station, Keppel Pier, Millport, Buteshire.

### *Preservation of Fish*

II. TORRY RESEARCH STATION (Dept of Scientific and Industrial Research), Aberdeen. (See V. 8 below.) Research is carried out on the transport and storage of fish and on fish by-products.

### IV. TIDES AND METEOROLOGY.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. The work carried on is as follows : (1) The continuous prosecution of scientific research into all aspects of knowledge of the tides and of kindred geophysical subjects ; (2) the analysis of tidal observations and the preparation of tide-tables ; (3) the taking of meteorological and seismological observations, together with the supplying of information on these subjects ; (4) the maintenance and firing of the Time-gun ; (5) the testing of chronometers and navigational instruments. Students in research or in the routine of tidal work may be admitted on appln. to the Director of the Institute, The University, Liverpool.

### V. INDUSTRIAL.

Persons wishing to avail themselves of the resources of any of the centres 1-8 are advised to call in the first instance for suggestions and advice on the Dept. of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1. Research workers from overseas are not accommodated in the research stations of the Dept. unless sent by Dominion and Colonial Governments by arrangement with the Department. Visitors from the Dominions or Colonies making inquiries on subjects falling within the scope of the various stations will, however, be supplied with such information as is available for communication.

For centres 9 and onwards applications should be made direct.

1. THE NATIONAL PHYSICAL LABORATORY, Teddington, Middlesex, was founded in the year 1901 as a public institution for standardizing and verifying instruments, testing materials, and for the determination of physical constants. The Laboratory comprises the following main sections : Physics ; Electricity ; Metrology ; Engineering ; Aerodynamics ; Metallurgy and Metallurgical Chemistry ; William Froude National Tank.

2. THE FUEL RESEARCH STATION, Blackwall Lane, Greenwich, London, S.E.10, carries out investigations on the nature, preparation, and utilization of fuel of all kinds. The equipment of the Station includes large-scale plant for the carbonization, gasification, hydrogenation, cleaning, and briquetting of coal, boiler installations, and internal combustion engines for testing liquid fuel, as well as laboratories for small-scale investigations.

3. THE GEOLOGICAL SURVEY OF GREAT BRITAIN AND MUSEUM OF PRACTICAL GEOLOGY, Jermyn St., London, S.W.1, assists students and others doing research as follows (a) Palæontology, Petrology, and Mineralogy; the collections of British fossils, rocks, and minerals are always available under the guidance of the officer in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (b) Mapping and field work. In the library large-scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who made the maps are at hand to explain points of difficulty. (c) The library is especially rich in foreign surveys and in British geological literature. The public are admitted freely.

4. THE FOREST PRODUCTS RESEARCH LABORATORY, Princes Risborough, Bucks, is concerned with the general study of forest products, especially timber, with a view to their more efficient conservation and economical use. Arrangements have recently been completed in conjunction with the Empire Marketing Board for the work of the Laboratory to be extended to cover investigations of the technical qualities of Empire timbers.

5. THE BUILDING RESEARCH STATION, Bucknall's Lane, Garston, nr. Watford, Herts, is concerned with general research into building materials and methods of construction.

6. THE RADIO RESEARCH STATION, Slough, Bucks, has for its object the scientific study of general problems involved in the development of radio communication.

7. THE CHEMICAL RESEARCH LABORATORY, Teddington, Middlesex, undertakes research on certain purely chemical problems (*e.g.* High Pressure Chemistry, synthetic resins, "low-temperature" tar, corrosion of metals) and also chemical investigations on behalf of other research organizations, where these can more conveniently be carried out in a central chemical Laboratory.

8. THE FOOD INVESTIGATION STATIONS of the Department are concerned with research on the storage and transport of foodstuffs. The LOW TEMPERATURE RESEARCH STATION, Downing Street, Cambridge, is concerned mainly, but not exclusively, with fruit and meat; the DITTON LABORATORY, East Malling, Maidstone, Kent, with fruit; the TORRY RESEARCH STATION, Aberdeen, with fish. See above, *passim*.

9. BRITISH CAST IRON RESEARCH ASSOCIATION, 21-23 St. Paul's Square, Birmingham, of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of production, and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central Laboratory is in Birmingham and an auxiliary laboratory in Falkirk, but other research work is at university and other research laboratories at Sheffield, Birmingham, Manchester, etc., and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director is prepared to co-operate in planning investigations.

Quarterly bulletin of abstracts and information on current metallurgical literature.

10. THE BRITISH CUTLERY RESEARCH ASSOCIATION. Has now ceased operations.

11. THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION, Regnart Buildings, Euston St., London, N.W.1. (Telegrams—Metreserch, Eusroad, London), aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. The researches of the Association have hitherto been carried out in approved academic and other institutions, or in works, but a central Headquarters has now been established in London, where Research, Development, and Intelligence Depts. will operate together. The results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published.

12. THE BRITISH REFRACTORIES RESEARCH ASSOCIATION, Drayton House, 30 Gordon St., London, W.C.1, conducts investigations designed to improve the manufacture, quality, and methods of using the heat-resisting materials of which high-temperature installations, including coke-ovens, gas-retorts, and blast and other metallurgical furnaces are constructed. Whilst having its own special field of work, many of its investigations prove of fundamental interest to the clay industries generally, fuel technologists, and metallurgists. Research headquarters are at the North Staffs Technical College, Stoke-on-Trent, and one branch of its work is carried out at Sheffield Univ. Bulletins containing the results of investigations are published periodically, and issued confidentially to members of the Research Assn. Occasional special Bulletins are released for general circulation, and Reports are published from time to time at the discretion of the Council in the appropriate technical journals.

13. THE BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION, 36/38 Kingsway, London, W.C.2, has no laboratory of its own. It arranges programmes of research and carries them out with the help of makers' laboratories and Universities and Technical Colleges (sometimes under contract with members of staffs or students), in power stations, etc. It aims at securing co-ordination of research work and realization of maximum benefits from it. Reports are published generally in the *Journal* of the Institution of Electrical Engineers.

14. RESEARCH ASSOCIATION OF BRITISH MOTOR AND ALLIED MANUFACTURERS. Incorporated 1919. This Association has now been absorbed by the Research and Standardization Committee of the Institution of Automobile Engineers See No. 33 below.

15. THE BRITISH MOTOR CYCLE AND CYCLE-CAR RESEARCH ASSOCIATION, established 1921. This Association has now been absorbed by

the Research and Standardization Committee of the Institution of Automobile Engineers. See No 33 below

16. THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION, 26 Russell Square, London, W.C.1 (Telegrams—Promores, Westcent, London), conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters' laboratories at 26 Russell Square, and researches are prosecuted in universities, technical colleges, works laboratories, and works. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are available only to members. Among the institutions receiving them are: the Research Council Library, Parliament Buildings, Ottawa, Canada; Council of Scientific and Industrial Research, 314 Albert St., East Melbourne, Australia; Advisory Board of Industry and Science of the Union of S. Africa, New Law Courts, Johannesburg; Survey of India, 15 Wood St., Calcutta.

17. THE RESEARCH ASSOCIATION OF BRITISH PAINT, COLOUR, AND VARNISH MANUFACTURERS, Waldegrave Road, Teddington, Middlesex, founded 1926, conducts researches into problems relating to the treatment of the raw materials and the fabrication of the finished products of the industries suggested by the title as well as the allied industries of printing ink, linoleum, and artificial cloth manufacture. The researches are wholly prosecuted in the laboratories at the Paint Research Station.

Not the least important part of the studies is concerned with the physical properties of materials. The Association also possesses a small scale factory plant and extensive equipment for carrying out accelerated weathering tests on paint materials. The research reports are, in general, confidential to members. Annual reports and bulletins are issued from time to time. The Association also issues bi-monthly a Review of Current Literature relating to the Paint, Colour, and Varnish Industries, which embraces about 250 abstracts per issue. This Review is issued primarily for members, but it has a private sale to interested persons or companies both in England and abroad, not eligible for membership of the Association.

18. THE BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION, Shirley Institute, Didsbury, Manchester, does not admit students to work in its laboratories. Its research results are communicated to its members, and the papers released for open publication are issued in the Journal of the Textile Institute, 16 St. Mary's Parsonage, Manchester.

19. THE WOOL INDUSTRIES RESEARCH ASSOCIATION, "Torridon," Headingley, Leeds (Telegrams—Woolira, Leeds), awards research fellowships and advanced scholarships tenable at Universities and Colleges, and by arrangement with the Univ. of Leeds, post-graduates

proceeding to higher degrees can carry out their research work at the Association's laboratories. The results of research carried out at the headquarters of the Association are published in the Journal of the Textile Institute, the Journal of the Society of Dyers and Colourists, and in other scientific journals. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation.

20. THE LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Co. Antrim, N. Ireland. Investigators, who must be British subjects, are admitted to work in the Association's Research Institute in furtherance of its objects and in preparation for University degrees. The work includes the investigation of problems arising in all branches of the industry, from the propagation of the seed to the merchandising of the finished goods. It affords scope for much original research in economic botany, agriculture, bio-chemistry, and physics, particularly the properties of colloids. The results of researches are frequently published in scientific journals. In order to develop flax-growing within the Empire, special arrangements exist to provide post-graduate instruction in the economic botany and technical utilization of the flax plant for suitable nominees from outlying parts of the Empire.

21. THE BRITISH SILK RESEARCH ASSOCIATION, 19 Russell Square, London, W.C. 1. Research results of general interest are usually published by the Journal of the Textile Institute. Provision is not normally made for circulation of unpublished reports to non-members. Research students, incl. students preparing for higher Univ. degrees, admitted to laboratory.

22. THE BRITISH LAUNDERERS' RESEARCH ASSOCIATION, 17 Lancaster Gate, London, W.2, is investigating the laundering of all types of washable fabrics—including cotton, linen, wool, silk, and rayon materials. The work includes in its scope the cleansing, drying, and re-finishing of these fabrics, in the diverse forms in which they are presented in articles of wear, domestic use, etc.; the materials used for these purposes. Engineering department deals with the plant required. The laboratories (at Hill View Gardens, Hendon, London, N.W.4) include an experimental laundry in which semi-full scale experimental work is carried out. Members may send students for courses of instruction in the Association's methods at the laboratories. In general, the research reports are confidential to members, but some have appeared in the appropriate scientific journals. Every attempt is made to encourage the application of scientific knowledge and methods in laundering, and numerous lectures are given throughout the British Isles, by the Association's staff. The literature relating to laundering is very limited, and the Association's book, *The Control of Laundry Operations* (1925), has now been supplemented by a second pubn., *The Chemistry of Laundry Materials* (1931).

23. THE BRITISH LEATHER MANUFACTURERS' RESEARCH ASSOCIATION, Offices, 8 St. Thomas Street, London, S.E. 1, and the Laboratory of the Director in the Lister Institute, Chelsea Bridge Road, London, S.W. 1, conducts research in regard to the manufacture (tanning, currying,

and dressing) of leather and the raw materials of the Industry. The research reports are generally confidential to members of the Association and to certain Government services, but a number of papers are printed in scientific or trade journals or separately for more general circulation.

24. THE BRITISH BOOT, SHOE, AND ALLIED TRADES RESEARCH ASSOCIATION, 19 Bedford Square, London, W.C.1, conducts research into problems that arise in the manufacture in bulk quantities of footwear, in its distribution to the general public and during its wear. The researches cover a wide field, embracing methods of measuring feet, statistical studies of the distribution of different types of feet, the design of lasts to suit different types of feet, the properties of shoe materials, the care of them and their economical use, and the chemical and other effects that may arise in the wear of shoes. A certain amount of work is carried out in collaboration with factories and technical colls. Students have from time to time been admitted to the Association's laboratories. The research reports are in general confidential to members of the Association and to certain Government Depts., but some are published, generally in the *Journal of the International Society of Leather Trades Chemists*. Membership of the Asscn. consists principally of boot and shoe manufacturers, but it also includes a number of manufacturers and suppliers of various shoe materials, such as textile fabrics, textile threads, shoe polishes, cleaners, dressings, and a few engineering firms who manufacture shoe machinery.

25. THE RESEARCH ASSOCIATION OF BRITISH RUBBER MANUFACTURERS, 105/107 Lansdowne Road, Croydon, Surrey, has laboratories, together with a technical library and information bureau to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. A *Summary of Current Literature*, containing abstracts of technical and scientific publications relating to all branches of the rubber industry, is issued to members and subscribers each month.

26. THE RESEARCH ASSOCIATION OF BRITISH FLOUR MILLERS, 40 Trinity Square, London, E.C.3, conducts research into problems connected with the manufacture and use of wheat flour and other products of wheat. The researches are carried out mainly at the laboratories of the Association, Old London Road, St. Albans, under the supervision of the Director of Research. Practical industrial applications of the laboratory scale work are studied in the mills of constituent firms. Reports of scientific work are, in general, confidential to members of the Association, but some are released from time to time for publication in the scientific or technical press. A library of scientific and technical books and periodicals bearing directly on flour milling and baking problems is being developed, and is accessible to students and others interested. Students as a rule are not admitted to work in the Association's laboratories.

27. THE BRITISH ASSOCIATION OF RESEARCH FOR THE COCOA, CHOCOLATE, SUGAR CONFECTIONERY, AND JAM TRADES, Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7, conducts research

into problems connected with the manufacture of these products, though occasionally some portions of an investigation may be conducted in a factory. The research reports are issued to members and certain Govt. Depts. only, and, with a few exceptions, are confidential. Some reports, particularly those dealing with analytical investigations, are pubd in scientific or trade journals. Secretary, 22 Buckingham Gate, London, S.W.1.

28. THE BRITISH FOOD MANUFACTURERS' RESEARCH ASSOCIATION, 2 and 4 Dalmeny Avenue, Holloway, London, N 7. This Association was originally intended to include branches of the food industries not covered by the Association for the Cocoa, Chocolate, Sugar Confectionery, and Jam Trades, but the membership consists mainly of manufacturers of sausages, cooked meats, and other meat products, preserved fish, and also bacon and ham curers.

The researches into problems connected with these products are conducted in the Association's laboratories, and occasionally parts of the investigations may be carried out in factories. The reports are confidential, and are issued to members and certain Government services only. So far only reports of general interest to chemists have been published in scientific or trade journals. Secretary, 22 Buckingham Gate, London, S.W.1.

29. THE BRITISH COLLIERY OWNERS' RESEARCH ASSOCIATION, General Buildings, Aldwych, London, W.C.2. This is an Association whose members are the various district colliery owners' associations constituting the Mining Association of Great Britain.

Though the Association conducts directly a certain amount of research work into mining problems, generally speaking it finances approved items of research work to be conducted on its behalf. Its reports are, in general, confidential to members of the Association, but from time to time reports on specific items of work are published for general circulation.

30. THE SCOTTISH SHALE OIL SCIENTIFIC AND INDUSTRIAL RESEARCH ASSOCIATION, 53 Bothwell St., Glasgow, C.2. The research work of the Association is now being carried on in the Central Laboratories of Scottish Oils, Ltd., in the shalefields. There are no special facilities for research students, those engaged on the work coming from the organizations of the companies engaged in the industry.

31. THE PRINTING INDUSTRY RESEARCH ASSOCIATION (Registered 1930), St. Bride Institute, Bride Lane, London, E.C.4, was formed to assist printers and bookbinders to overcome the technical difficulties which are encountered in their work, and is supported by individual firms and employers' and employees' trade organizations.

Through the Association members are in touch with the printing research laboratories throughout the world. Memoranda on topics of general interest to the craft are issued periodically and lectures on technical matters arranged. Information relating to new processes, equipment, and materials is obtainable, and the Association will undertake, for a special fee, investigations for the private use of individual members.



32. THE IRON AND STEEL INDUSTRIAL RESEARCH COUNCIL of the National Federation of Iron and Steel Manufacturers, Caxton House, Tothill St., London, S.W.1, was formed on Jan. 1, 1929, to work in conjunction with the Dept. of Scientific and Industrial Research. It was laid down by the Council at the outset, as a governing principle, that its work should primarily be of an industrial character, pertaining to the appln. of sci. to the improvement of productive efficiency. A Blast Furnace Committee is at present dealing with the following problems : (i.) Coke Research, in conjunction with Coke Res. Committees at Sheffield, Newcastle and Glasgow, and with the Fuel Res. Division of the D.S.I.R. (ii) Blast Furnace Refractories, in assn with the British Refractories Res. Assn. ; (iii.) Present position of British blast furnace practice ; (iv) Character of British ores ; (v.) Preparation of air blast ; (vi.) Measuring instruments ; (vii.) Standard methods of costing at blast furnace plant.

Work carried out during the past 5 yrs., under the direction of Prof. Bone and his collaborators at the Imperial Coll of Sc. and Tech., is elucidating the underlying problems of blast furnace operation.

An Open Hearth Committee has been formed, which is working on somewhat similar lines to the Blast Furnace Committee. A statistical survey of operating data of open hearth furnaces in Gt. Britain and on the Continent has been made, and the factors which have been elucidated are being applied to problems in design of open hearth furnaces and regenerators. The possibility of the application of time studies to the operation of open hearth plant is also being considered.

Rolling mill practice is also receiving attention, particularly with regard to heat and energy consumption in rolling mills, and production studies. The relationship between steelworks and rolling mill practice, having a bearing on production efficiency, is also receiving attention.

Two Committees, under the Chairmanship of Dr. W. H. Hatfield, are directing research work on corrosion of iron and steel, and the quality of steel ingots. The Corrosion Committee recently published its first report, and the fourth report of the Heterogeneity Committee is in preparation.

A new feature in connexion with the work of the Council is the formation of Committees set up primarily to investigate local industrial problems such as : (1) Sheffield Smoke Abatement Research Committee, which is dealing with industrial furnace development in relation to smoke abatement ; (2) S. Wales Tinplate Research Committee, which is investigating causes of defects in tinplates ; (3) S. Wales Siemens Steel Research Assn., which is studying production efficiency in S. Wales, and also giving attention to the scientific control of open hearth furnaces ; steel quality is receiving attention with a view to reducing defects in the finished material as far as possible.

A bibliography is issued monthly on fuel technology and power production, and provision has been made in the activities of the Research Council for maintaining a close liaison with the work of the standardization authorities.

International liaison has been established in all countries with any

organizations or res. workers engaged in similar work, or work which has a bearing on the activities of the Council.

The practical support of the industry as a whole has been obtained, and it is already evident that the exchange of experience is resulting in the rapid improvement of technique throughout the industry.

33. **RESEARCH AND STANDARDIZATION COMMITTEE**, The Institution of Automobile Engineers (Offices—Watergate House, York Buildings, Adelphi, London, W.C.2. Research Laboratory—5 Bolton Road, Chiswick, London, W.4. Standardization Dept.—83 Pall Mall, London, S.W.1). The object of the Committee is to promote research in connexion with the British motor trade, to eliminate needless repetition and overlapping of expenses by pooling resources. The plant and the information collected by the late Research Assn. of British Motor and Allied Manufacturers has been placed at the disposal of the Committee. An important feature of the Committee's activities is the collection and classification of information of value to the industry. The Research reports are, in general, confidential to Affiliated Manufacturers of the Institution. The Committee will also deal with the whole work of standardization for the Motor Industry hitherto carried out by the Society of Motor Manufacturers and Traders. Inquiries to be addressed to the Secretary.

34. **THE SAFETY IN MINES RESEARCH BOARD**, Cromwell House, Dean Stanley Street, London, S.W.1. This Board is composed of scientific and mining members appointed by the Secretary for Mines to conduct and co-ordinate research into the causes of mining dangers and the means for preventing such dangers.

The work is financed chiefly by endowment and grants provided from the Miners' Welfare Fund, and is carried out mainly by the Board's own staff at its large-scale experimental station at Buxton, its laboratories at Sheffield, and in the Engineering Dept. of the Imperial Coll. of Science in London. Grants for the maintenance of approved research are also made by the Board, *e.g.* to workers at Birmingham and Leeds Universities.

Researches are in progress into the prevention of coal dust explosions, fire-damp explosions, and the spontaneous combustion of coal; the safety and safe use of electricity, explosives, and safety lamps; the prevention of accidents from falls of ground and haulage operations; the improvement of wire ropes and mine rescue apparatus, and the ventilation of deep and hot mines. The falls of ground research includes, in addition to laboratory work on the design and strength of roof supports, a comprehensive scheme of underground experimental work at collieries, carried out in co-operation with the branches of the Instn. of Mining Engineers, and the haulage work is being developed on similar lines. The results of the researches are published in the Board's own technical papers and *Annual Reports* (which are on sale through H.M. Stationery Office) and in scientific journals.

The Board, in addition to its research activities, engages in safety propaganda among mine workers. Experimental demonstrations are given at the Buxton Research Station to miners, mine officials, and

mining teachers from colliery districts, and a special series of illustrated booklets is published under the title, *What Every Mining Man should Know*. A start has been made with propaganda by means of films.

Arrangements are made for co-operation with the Safety Research Organizations in Belgium, France, Germany, and the U.S.A., and in the case of U.S.A. these include provision for interchange of personnel.

35. MINING RESEARCH LABORATORY, University of Birmingham (Director, Prof. J. S. Haldane, C.H., F.R.S). Accommodation for this Laboratory is provided by Birmingham Univ., and the expenses of the staff and some of the research workers are covered by a grant from the Mining Assn. of Gt. Britain through the British Colliery Owners Research Assn. The expenses of other research workers are covered by grants from the Safety in Mines Board (Miners' Welfare Fund). The Laboratory is solely engaged in researches on problems partly physical, partly chemical, and partly physiological, connected with mining. At present the main problems under investigation are the control of underground temperature, the physiological effects of heat, the control of spontaneous underground combustion, mine lighting, miners' nystagmus and dust inhalation.

All the results of the work are published, mainly in the Transactions of the Institution of Mining Engineers, and partly in Proceedings of the Royal Society and other journals. Much of the work is done at mines throughout the country, but based on the Laboratory at Birmingham.

36. THE BRITISH MUSEUM LABORATORY, 39 Russell Square, London, W.C.1, is devoted to investigations on the best methods of preserving and restoring museum exhibits of any kind and of every age. Reports published from time to time, obtainable from H.M. Stationery Office or from any bookseller. Inquiries to be addressed to the Director.

37. THE INDUSTRIAL INSTITUTE, 102 Belgrave Road, S.W.1. Founded 1925 for the promotion of scientific research into those questions of industrial economics and industrial ethics which touch the relations and interests of the groups into which the development of the industrial system has divided the nation. It is constituted on a non-party basis, and it is expressly laid down that "it will not be concerned to maintain private ownership nor to develop public ownership," its object being "to study things as they are, and by the light of knowledge so gained to form conclusions which may be put into practice and tend towards improvement of the conditions of industrial life."

An essential object of the Institute is to provide means whereby the time taken for the general acceptance of the results of scientific work, and the application of those results to the problems of practical life, may be shortened. Accordingly, the Institute has been constructed so that it associates in its work both those concerned with the development of pure science and those concerned with practical affairs. Further, its governing body is constituted of men so representative of the various special interests that each social group may readily be reached and influenced directly, and the usual rough methods of propaganda be unnecessary. In pursuit of its objects, the Institute has developed the

methods of statistical analysis as applied to economic data. The process of trend analysis developed in the Institute consists in the finding of some mathematical function applicable to the two or more series of data under investigation, and the comparison of the paths swept out by those functions when applied to the data in question. This is the essential feature differentiating this work from that generally current among statisticians.

38. NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY, Aldwych House, Aldwych, London, W C.2. Principal—C. S. Myers, C.B.E., M D., Sc.D., F.R.S. Director—G. H. Miles, D Sc. The Institute is a non-Government body founded in 1921, and controlled by a council of scientists, industrial employers, and Trade Union leaders. It exists to supply psychological and physiological knowledge to the human element in industry, its aim being to ensure that energy is applied in the most economical possible way, and not wasted through inefficient methods or unsuitable working conditions. Its scope includes fatigue- and movement-study, and study of the effect on efficiency of different incentive systems, working hours, rest pauses, lighting, and ventilation systems, etc.; also study of large-scale organization questions, such as planning, progressing, lay-out, internal transport, and distribution. Investigations are carried out on behalf of industrial firms.

On its vocational side the Institute applies mental and physical tests to determine the fitness of individuals for particular types of work. Tests are devised and standardized for the use of industrial firms in selecting employees, and in the laboratories of the Institute or in schools individuals are tested and advised on the choice of an occupation.

The Inst. gives lectures and practical courses suitable for the requirements of the new Academic Diploma in Psychol. of London Univ. It also offers facilities for research in those subjects, and organizes Training Courses for school teachers in the principles and methods of intelligence testing. *The Human Factor*, monthly; *Ann. Reports* free on appln. *Special Reports*.

## VI. PURE SCIENCE.

1. BRITISH MUSEUM (NATURAL HISTORY), South Kensington, London, S.W.7. Departments: Zoology, Entomology, Geology (Palaeontology), Mineralogy, Botany. In addition to the specimens exhibited in the public galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks, and meteorites. The systematic determination, description, and classification of this material constitute the principal research-work of the scientific staff (51 members) and other helpers (27). This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks

and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

*Publications. Scientific Catalogues and Monographs, etc.; Natural History Magazine* (quarterly).

2. **DAVY FARADAY RESEARCH LABORATORY**, The Royal Institution, 21 Albemarle Street, London, W.1. The research work of the Royal Institution is carried on in the Davy Faraday Laboratory, which is housed in a building adjoining the Institution, presented by the late Dr. Ludwig Mond. There is room for about fifteen research workers. The laboratories are open to anyone who wishes to carry on researches in connexion with physics and chemistry provided the subject and the worker are approved by the Committee of Management. No fees are charged.

At the present time, the main subject of investigation is the analysis of organic crystals by means of X-rays.

3. **CAMBRIDGE OBSERVATORY**, Madingley Road, Cambridge. Every effort is made to give research students facilities for carrying out investigations. Applications should be made to the Director.

4. **THE SOLAR PHYSICS OBSERVATORY**, Madingley Road, Cambridge. The laboratory contains spectroscopic, photometric, and other apparatus for experimental research and many photographic records of spectra. Facilities are offered to research students for carrying out special researches or for taking a share in the regular work of the Observatory. Applications should be made, in writing, in the first instance, to the Director.

5. **LONDON UNIVERSITY OBSERVATORY**, *see* p. 138

6. **THE SCOTT POLAR RESEARCH INSTITUTE**, Lensfield, Lensfield Road, Cambridge. This Institute was founded in 1921 in memory of the late Captain Robert Falcon Scott, C V O., R.N. The purpose of the Institute is to provide information about, and facilities for research on, polar topics, and to give assistance towards the publication of the results of expeditions. The collections of the Institute include a polar library, maps, photographs, and pictures, specimens of travelling equipment, and a collection of original records of past expeditions. The Inst. is open to the public from 10 to 4 on week-days. Application should be made to the Director for information as to the use of the research rooms.

7. **FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS AND THE BIOMETRIC LABORATORY**, *see* p. 136.

8. **JOHN INNES HORTICULTURAL INSTITUTION**, Mostyn Road, Merton, London, S.W. 19, is engaged in research on plant genetics and cytology. It is the only place in the Empire where fundamental work in cytology of plants is being pursued. The study of the laws of inheritance in various horticultural plants, particularly fruit, receive special attention. Post-graduate short course every 2 yrs. Qualified persons desirous of conducting work coming within the scope of the Institution are given facilities freely. Biological and chemical labs., experimental gardens and greenhouses.

9. **OXFORD UNIVERSITY, BUREAU OF ANIMAL POPULATION**. For research on the ecology, etc., of wild animals. *See* p. 235.

VII. MEDICAL.

The following centres, 1-5, are under the direction of the Medical Research Council.

1. THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, London, N.W.3 (Director: Sir H. H. Dale, C.B.E., M.D., Sec R.S.). This is the central research institute of the Medical Research Council (*see* App. XXIII. 15), and is primarily a place of work for members of the Council's permanent scientific staff. A few well-qualified attached workers can be received by special arrangement to follow approved lines of inquiry. There are no courses of instruction, but periods of research work at the Institute may be accepted for the purposes of higher degrees in the University of London. The Institute includes the following departments, brought together in the present building in 1920: (a) biochemistry and pharmacology; (b) experimental pathology, bacteriology, and protistology; (c) applied optics; and (d) biological standards. Parts of the work of various departments are done at the associated FARM LABORATORIES at Mill Hill.

2. DEPARTMENT OF CLINICAL RESEARCH, University College Hospital Medical School, London, W.C.1 (Director: Sir Thomas Lewis, C.B.E., M.D., D.Sc., F.R.S.). The dept. is engaged in clinical researches into the cardio-vascular system in health and disease. Attached workers may be received by arrangement with the Director.

3. THE NATIONAL COLLECTION OF TYPE CULTURES (Curator: R. St. John-Brooks, M.D.), at present housed at the Lister Institute, London, S.W.1. Type cultures of pathogenic and other micro-organisms are maintained and researches into systematic and cultural problems undertaken.

4. THE STANDARDS LABORATORY, Oxford (in charge, A. D. Gardner, D.M.). The laboratory is maintained for the production of standard diagnostic cultures and sera for enteric, dysenteric, and some other infections, and for related research work. It is at present placed within the Dunn Institute of Pathology, University of Oxford.

5. THE DUNN NUTRITIONAL LABORATORY, Cambridge (in charge, L. J. Harris, D.Sc., Ph.D.). Maintained by the Council at the University Field Laboratories, Milton Road, for researches into problems of human nutrition, in association with the University departments for the various medical sciences.

6. THE WELLCOME BUREAU OF SCIENTIFIC RESEARCH, 183-193 Euston Road, London, N.W.1 (Telegrams—Welscience, Eusroad, London), to which are affiliated the Wellcome Physiological Research Laboratories, Langley Court, Beckenham, and the Wellcome Entomological Field Laboratories, Claremont, Esher, was founded by Sir Henry S. Wellcome, for the purpose of research, especially in subjects connected with tropical medicine and hygiene. There are departments of bacteriology, pathology, chemotherapy, protozoology, helminthology, and entomology. Regular teaching is not undertaken, but a limited number of research workers who wish to follow some particular line of investigation may be given accommodation and facilities for carrying out their work. No charge is made for this, and all material is supplied,

unless it is of a very special nature. Attached to the Bureau is the Museum of Medical Science (*see* XI 3 below).

7. THE STRANGWAYS RESEARCH LABORATORY, Cambridge, is an independent institution mainly devoted to the study of tissue culture *in vitro* and to the application of that technique to biological problems. Work at present in progress includes investigations of the minute anatomy of living cells, the growth and differentiation of early embryonic tissue, the pathology of injury and repair, and the effects on living cells of X-rays and radium.

The Laboratory provides facilities for a limited number of workers who wish to investigate some specific problem involving the tissue culture technique. Such accommodation cannot be afforded for a period of less than six months. Further information may be obtained from the Director, Dr. H. B. Fell, Strangeways Research Laboratory, Hills Road, Cambridge. Letters should be marked "via Cherryhinton."

8. THE ROSS INSTITUTE AND HOSPITAL FOR TROPICAL DISEASES, Putney Heath, London, S W 15. Telegrams: (Inland) Rosresearch Put., London; (Foreign) Rosresearch, London India Branch, Headquarters: McLeod House, 28 Dalhousie Square, Calcutta. *Telegrams*: Rosopheles, Calcutta (*Director*, Sir Aldo Castellani, K C.M G., M D. Flor., F.R C.P.).

The Institute maintains research laboratories, a hospital, and a malaria dept. There is also an extensive library. It sends experts to the tropics to give practical advice on sanitation and anti-malaria work. It is a centre for the investigation of Fungi and Fungal diseases. Important research is also being carried out on intestinal diseases, especially on the lesser known forms of chronic colitis; on cancer, and on minor types of heat exhaustion and Sun Traumatism, little known skin troubles, etc.

Planters' Courses on the practical control of malaria are held from time to time, free of charge. Facilities for research are given to visiting doctors and others.

Inquiries to be addressed to the Secretary.

9. THE IMPERIAL CANCER RESEARCH FUND, under the direction of the R.C.P. London and the R.C.S. England, was constituted in 1902 to promote investigations into all matters bearing on the causes, prevention, and treatment of cancer and malignant disease. It possesses two Research Laboratories and a staff consisting of the Director and 6 scientific assistants. It publishes a general report annually and scientific reports from time to time. Total capital, £218,000. *Address*—8-11 Queen Square, London, W.C.1, and Stroud Laboratory, The Ridgeway, London, N.W.7.

#### CENTRES OF SCIENTIFIC INFORMATION

#### VIII. BOTANY AND AGRICULTURE.

##### (*England and Wales*)

1. ROYAL BOTANIC GARDENS. Information is supplied on botanical matters to all parts of the Empire. (*See also* I. 1 above.)

2. IMPERIAL INSTITUTE OF ENTOMOLOGY. Head Office at—British Museum (Natural History), Cromwell Road, London, S.W.7. Director: Sir G. A. K. Marshall. An information and identification bureau to assist economic entomologists throughout the Empire. The Institute has now been recognized as the international centre for the accumulation and correlation of all information regarding the movements and breeding of locusts in Africa and Western Asia, and it issues periodical summaries of this information to all the Governments concerned. The Director of the Institute is also in charge of the field investigations being carried out under the authority of the Committee on Locust Control appointed by the Economic Advisory Council. Three investigators are at work in East Africa with the object of finding the permanent breeding grounds of the three most important species of locusts and of discovering the factors that lead to the development of the swarming phase. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*; and the *Zoological Record*, part "Insecta." A large lending library is available at the Publication Office, 41 Queen's Gate, London, S.W.1 (Dr. S. A. Neave). Parasite Laboratory: Farnham House, Farnham Royal, Bucks (Dr. W. R. Thompson).

3. IMPERIAL MYCOLOGICAL INSTITUTE, Ferry Lane, Kew, Surrey. Director: E. J. Butler, C.M.G., C.I.E., D.Sc., F.R.S. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Bureau monthly, contains detailed abstracts in English of all work published in any part of the world.

The following Bureaux Nos. 4-9, and 13, 14 inclusive, were instituted in 1929 as the result of the Imperial Agricultural Research Conference held in London in 1927. They are maintained from a fund provided by contributions from the Governments of the Empire, and are controlled by an Executive Council appointed by those Govts. Address: 2 Queen Anne's Gate Buildings, London, S.W.1. The Bureaux do not undertake research; they assist research workers in the Empire by acting as clearing-houses of information and by arranging meetings.

4. IMPERIAL BUREAU OF SOIL SCIENCE, Rothamsted Experimental Station, Harpenden, Herts, a central clearing-house of information on soil problems throughout the Empire. (See I. (a) 4 above.)

5. IMPERIAL BUREAU OF PLANT GENETICS, Plant Breeding Institute, Cambridge University. This Bureau collects and disseminates information on crops other than herbage plants throughout the Empire. (See I. (a) 6 above.)

6. IMPERIAL BUREAU OF PLANT GENETICS, Welsh Plant Breeding Station, Aberystwyth. This Bureau collects and disseminates information on herbage plants throughout the Empire. (See I. (a) 6 above.)

7. IMPERIAL BUREAU OF FRUIT PRODUCTION, East Malling Research Station, Kent. (See I. (b) 2 above.)



8. IMPERIAL BUREAU OF ANIMAL HEALTH. Veterinary Research Laboratory, Weybridge. (*See I. (c) 4 above.*)

9. IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY, Institute of Agricultural Parasitology, Winches Farm, Hatfield Road, St. Albans, Herts. (*See I. (c) 6 above.*)

10. LONG ASHTON FRUIT RESEARCH STATION, Nr. Bristol. (*See I. (b) 1 above.*)

11. EXPERIMENTAL AND RESEARCH STATION, Cheshunt (*See I. (b) 4 above.*)

12. INSTITUTE OF AGRICULTURAL ENGINEERING, Oxford. (*See I. (g) above.*)

*(Scotland)*

13. IMPERIAL BUREAU OF ANIMAL NUTRITION, Rowett Research Institute, Aberdeen. (*See I. (d) 5 above.*)

14. IMPERIAL BUREAU OF ANIMAL GENETICS, Animal Breeding Research Dept., Edinburgh. (*See I. (d) 7 above.*)

IX. INDUSTRIAL.

*(England and Wales)*

1. IMPERIAL INSTITUTE, S. Kensington, London, S.W.7. The principal object of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the examination of all kinds of plant and animal products and minerals; special laboratories have been installed for the testing of rubber, cement, and ceramic materials. The results of the principal investigations are published in the quarterly bulletin of the Institute and in papers contributed to scientific and technical societies. Valuable information relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work, and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements have been made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

2. THE MUSEUM OF PRACTICAL GEOLOGY, Jermyn Street, London, S.W.1, to which is attached a valuable library of standard works and geological maps, serves as the laboratory of the Geological Survey of Great Britain (*see V. 3 above*). In the library large-scale maps of all parts of Gt. Britain which have been geologically surveyed are open for reference, and the officers of the Survey are ready to explain points of difficulty. The library is also specially rich in foreign surveys.

3. THE SCIENCE MUSEUM, South Kensington, S.W.7, which is the National Museum of Science and Industry, was established in 1856, and its collections now occupy 200,000 sq. ft. of exhibition space. Its purpose is to illustrate science and the application of science to industry, at the same time to show the gradual development of the modern efficient types from earlier and more simple ones.

The Museum is open to visitors free of charge every week-day (10-6) and on Sunday afternoons (2 30-6).

Pure Science is represented by the Collections of instruments and apparatus used for study and research in the phenomena of various branches of physics, electricity, heat, light, acoustics, etc., as well as in astronomy, chemistry, geodesy, and the measurement of time.

The application of science to industry is illustrated by extensive collections of machinery and apparatus relating to Mech. Engineering, Railway Engineering, Road Transport, including Mech. Transport of all kinds; Aeronautics, Ship and Boat Construction, Marine Engines, Elect. Engineering, including all forms of Telegraphy, Telephony, and Radio-communication. Many groups of Industrial Engineering are also represented as: Textile Machinery, Hand Tools and Machine Tools, Printing, Glass Technology, Agric. Implements and Machinery, as well as Mining, Metallurgy, and Ore Dressing. A special Children's gallery is also included.

The number of visitors during 1932 considerably exceeded one million.

The Science Library which is attached to the Museum contains 215,000 vols. relating to all kinds of science, pure and applied, except Medical Science, and including 10,800 scientific periodicals. These may be issued on loan to scientific institutions for the use of their members on requisition.

*(Scotland)*

4. ROYAL SCOTTISH MUSEUM, Edinburgh. A centre of scientific information dealing with technology. (See X. 8 below.)

## X. PURE SCIENCE.

*(England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew. (See I. (a) 1 above.)

2. BRITISH MUSEUM (NATURAL HISTORY). The various departments of the Museum (see VI. 1 above) contain, besides the specimens in the public galleries, much larger series in the study-collections which are available for consultation or research by qualified workers. Attached to the Museum is an important library of scientific works intended primarily for the use of the staff, but also available to students with tickets for the study of the natural history collections.

3. MUSEUM OF PRACTICAL GEOLOGY. (See IX. 2 above.)

4. SCIENCE MUSEUM. (See IX. 3 above.)

5. NATIONAL MUSEUM OF WALES, Cardiff, South Wales. A centre of scientific information on the geology, botany, zoology, and archæology of Wales.

6. BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Burlington House, Piccadilly, London, W.1. Research Committees of the Association conduct researches and prepare reports. Committees of the Sections consider, *inter alia*, the financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by

the late Sir James Caird of Dundee in 1912; any surplus from subscriptions in excess of administrative expenses is also devoted to research. The Association welcomes the attendance of University students at its annual meetings, and has a special class of "student membership" at reduced fees for duly qualified persons.

7. THE SCOTT POLAR RESEARCH INSTITUTE. (See VI. 6 above)

(Scotland)

8. ROYAL SCOTTISH MUSEUM, Edinburgh. A centre of scientific information dealing with ethnography and natural history. (See IX. 4 above.)

XI. MEDICAL.

1. THE BUREAU OF HYGIENE AND TROPICAL DISEASES, Keppel Street, Gower Street, London, W.C.1, is under the general control and direction of an honorary Managing Committee appointed by and responsible to the Secretary of State for the Colonies. The Bureau's main function is to collect, from all sources, information regarding hygiene and tropical diseases; to collate, condense, and, where necessary, translate this information, and make it available by means of its two publications, viz. the *Tropical Diseases Bulletin* and *Bulletin of Hygiene*, issued monthly. The Bureau is housed with the London School of Hygiene and Tropical Medicine, and its valuable library is incorporated with that of the School. The joint library contains 18,000 vols., and is open to accredited post-graduate research workers. The Bureau is officially recognized by the Colonial Office as an institution which receives and answers inquiries from the Colonial Empire on matters relating to hygiene and tropical medicine on which information is not locally available. Such inquiries should be addressed to the Director.

2. THE MUSEUM OF THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel St., Gower St., London, W.C.1, which is of the graphic type, is divided into three sections, *i.e.* Tropical Medicine, General Hygiene, and Sanitary Engineering.

The Tropical Medicine Museum deals generally with tropical diseases and with the subjects of bacteriology, entomology, helminthology, and protozoology in their relation to tropical medicine.

The General Hygiene Museum has exhibits relating to foodstuffs, especially milk, and gives a graphic display of the ordinary communicable diseases, including methods for their control. There are also sections dealing with maternity and child welfare, personal hygiene, port health administration, and other branches of hygienic activity.

The Sanitary Engineering Museum is devoted to a graphic exposition of water supply, conservancy, heating and lighting, up-to-date methods of cooking, town-planning, building, sanitary appliances, and the more primitive methods of sanitation in the tropics.

The Museum occupies three large rooms, one in the basement, one on the second floor, and one on the third floor.

3. THE WELLCOME MUSEUM OF MEDICAL SCIENCE, 183-193 Euston

Road, London N.W.1 (open Monday to Friday 9.30 A.M. to 5.0 P.M., Saturday 9.30 A.M. to 12.30 P.M.), presents a new system of visual teaching. The purpose and plan of the Museum is to give a general survey of human disease from every aspect. The causation, pathology, symptomatology, treatment and prevention of disease are demonstrated by means of pathological specimens, models, painting, photographs, etc., in such a way that they convey a graphic picture of the more important features. Associated with each disease a short summary is set forth of the important points; there is also a file containing abstracts with regard to all the more recent work.

The microscopic side of morbid anatomy is dealt with by means of colour photo-micrography, many of the photographs being shown in special illuminated cases. Thus an attempt has been made to provide a continuous demonstration of disease which will fix itself on the attention and memory of those who visit the Museum.

The Museum of Medical Science is open free of charge to all medical men, Health Officers, and students, also to laymen interested in medicine, provided they are introduced by a registered medical practitioner. Teachers of medicine are invited to give demonstrations to their classes in the Museum; and special attention is called to its value as a centre for post-graduate study.

#### 4. THE NATIONAL COLLECTION OF TYPE CULTURES (v. p. 835).

### B. IN THE DOMINIONS, COLONIES, AND DEPENDENCIES

#### CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

##### I. CANADA

##### AGRICULTURE.

NATIONAL RESEARCH COUNCIL, *see infra under* Scientific and Industrial.

DOMINION EXPERIMENTAL FARMS SYSTEM. The main activities of this large branch of the Federal Government service are experiment and research work in almost all fields of agricultural production. The Central Experimental Farm at Ottawa is the administrative headquarters, where a large volume of work in many fields is conducted.

There are 26 branch Stations, many of these devoting their special attention to special regional problems, such as researches in fruit production, ranch improvement, silver fox breeding, horse breeding, tobacco production, and the like, while the balance cover a wider field of investigational problems in two or more agricultural activities. The many specialized Sub-stations deal with urgent regional problems, such as soil drifting, physiological diseases of fruit trees, soil burn outs, cattle hybridization and red water in domestic cattle, and throughout Northern Canada discover the crop-producing possibilities before settlement takes place.

10 specialized Laboratories, 3 of which are located at, and co-operating closely with Univs., deal with the major plant disease problems and intensive research towards the creation of control measures.

Experimental research is divided into 12 divisions: (i.) Animal Husbandry; (ii) Bacteriological investigations; (iii) Botany investigations include researches in diseases of trees and crops and studies of economic medicinal and poisonous plants; (iv) Cereal investigations and the testing of new varieties as to their suitability throughout Canada; (v) Horticultural investigations; (vi.) Forage Crops investigations—a specialized research Station has been established at the Univ. of Saskatchewan to meet the needs of the Prairies in special problems of Elite Stock Seed production, the creation of superior kinds, varieties and strains, etc.; (vii.) Poultry investigations; (viii.) Tobacco experimental work; (ix.) Investigations in fibre plants; (x) Field Husbandry researches—on many Eastern Stations special attention is devoted to the improvement of pastures, while Western range improvement is also directed by this Division; (xi) The Divn. of Chemistry co-operates with all the above Divisions, individually, or on specialized committees.

Officials from these various Divisions are associated with different Provincial Committees towards the solution of specific problems and for the general advancement of agriculture.

(xii) Extensive investigations on the problem of black stem wheat rust and a study of fermentation in honey are conducted in co-operation with the National Research Council, while investigations in foot rots and root rots of cereals and diseases of fruits are carried on in co-operation with the Univs. in the Prairie Provinces and with the Univ. of Toronto.

#### FISHERIES.

Fisheries Research conducted under federal authority in Canada is carried on through the Biological Board of Canada, which is under the control of the Minister of Fisheries and is, in effect, the scientific branch of the Department of Fisheries. Four main research centres or stations, and several sub-stations, are operated by the Board, which consists of 2 officers of the Dept. of Fisheries, 2 representatives of the fishing industry, and 14 scientists selected from the staffs of Canadian Universities. The present chairman is Dr. J. P. McMurrich (Univ. of Toronto), and the hon. sec.-treasurer is Mr. J. J. Cowie (Dept. of Fisheries, Ottawa).

Duly qualified research workers may carry on voluntary investigations into approved problems at these centres from time to time. Two of the stations—one on the Atlantic coast at St. Andrews, New Brunswick (Director, Dr. A. G. Huntsman), and the other on the Pacific coast at Nanaimo, British Columbia (Director, Dr. W. A. Clemens)—are Fisheries Biological Stations concerned with problems related to the culture, conservation, and capture of fish. The other two stations, Fisheries Experimental Stations, carry on investigations and experiments in connexion with the handling, preservation, and marketing of fish. One is situated at Halifax, Nova Scotia (Director, Dr. A. H. Leim), and the second at Prince Rupert, B.C. (Director, Mr. D. B. Finn). Under an arrangement made with the Board by the authorities

Students of Dalhousie Univ. proceeding to the degree of B.Sc. in Fisheries take part of their course at the Halifax station. Schools of instruction for fishermen and fishery officers have been conducted by the Board at the Halifax station for some years. A sub-station of the Board at Cultus Lake, B.C., is concerned with studies on the life history of the sockeye salmon (*Oncorhynchus nerka*), with a view to determining the efficiency of artificial as compared with natural propagation. A second sub-station, at Ellerslie, Prince Edward Island, deals with the life history of the Atlantic coast oyster (*Ostrea virginica*), and with commercial oyster culture or "oyster farming."

Major work recently being carried on by the Board has included study of the effects of refrigeration on fish muscle, improvement of methods of smoking fish, investigation of methods for improving the preparation of fish meals and the purification of fish oils by hydrogenation, study of the vitamin content of the body oils and liver oils of various fish, investigation of industrial uses of fish oil, experiments with both sockeye salmon and pink salmon (*Oncorhynchus gorbuscha*) to test the parent-stream theory and the possibility of improving the runs of "off" years, oceanographic studies on both coasts to ascertain the source and distribution of the silica and phosphate contents of the waters as influencing the growth and distribution of plankton, a survey of the fisheries of the Bay of Fundy, and a similar survey in the Halifax area. Important work in connexion with oyster history and culture has also been done, and, in co-operation with the Government of British Columbia, the Board is carrying on an intensive study of the Pacific coast pilchard and herring fisheries.

Publications issued by the Board are its Annual Report, Contributions to Canadian Biology and Fisheries, Studies, and Bulletins. An extended summary of the Board's work from year to year is also printed in the annual report of the Dept. of Fisheries.

#### SCIENTIFIC AND INDUSTRIAL.

NATIONAL RESEARCH COUNCIL, Ottawa. The Government of Canada in 1916 constituted the Honorary Advisory Council for Scientific and Industrial Research, now known under the short title—"National Research Council," consisting of 15 scientists and business men, all of whom, excepting the President of the Council, serve on an honorary basis. This Council has engaged in four major activities: (1) the co-ordination of research work and the organization of co-operative investigations; (2) the post-graduate training of research workers. In the last 15 years 588 awards have been held by 350 persons in 18 depts. of science at 12 Canadian Univs. 300 persons have completed their training in science under these awards, and so far as it has been possible to ascertain all but 17 of these are at present actively engaged in scientific work. 1336 scientific papers have been published by these grantees, according to the latest information furnished to the Council by grantees (see App. XXIII. 21 above); (3) the prosecution of research work through assisted research grants; (4) the development of a National Laboratory system similar to the National Physical Laboratory at

Teddington Expenditure in 1930-31, \$548,604, including \$38,490 for scholarships and \$165,898 for assisted researches. More than 40 per cent. of all moneys expended by the Council on current account since it was established has been devoted to the co-ordination and stimulation of research in Univ., Government, and industrial laboratories throughout Canada.

Successful work has already been done in co-operation with the magnesite industry and in co-operation with the Dept of Agriculture, the United States authorities, and all those working on the problems of wheat rust and grain drying. Steps have been taken to co-operate similarly with the woollen industry, the tanners, and the launderers.

The Council has established two classes of *Associate Committees*, the first primarily to advise on scientific questions, the second, to direct research on some major problem. In Sept. 1932, 29 *Associate Committees* were in active operation. 100 investigations in 27 depts. of science are being carried out at 10 Univs. and 15 Govt. and industrial labs. under Associate Committees and with research grants.

(For further particulars, see *Canada Yearbook*, 1932, pp. 866-870)

In 1929 the Canadian Parliament authorized a capital expenditure of \$3,000,000 for the erection and equipment of National Research Laboratories under the control and direction of the Council. The Laboratories will provide accommodation for researches on industrial problems as well as problems in pure science, and will also serve as a national bureau of standards. Building operations began in the autumn of 1929, and the Labs. were finished in 1932. They were officially opened during the Imperial Conference of 1932.

The Laboratories which work in close co-operation with the Laboratories of the Federal and Provincial Govts. and of the Univs. are organized under the following divisions: (i.) Physics, incl. Eng. and Standardization; (ii.) Chemistry, incl. Textiles; (iii.) Biology and Agric.; (iv.) Research information, incl. research library, econ. studies and technical pubns. The Physics division includes completely equipped laboratories for aeronautics. There is already a 9-ft wind tunnel and a towing tank 400 ft x 8 ft. for testing aeroplane floats, hulls, and other high-speed craft. The Council publishes quarterly the *Canadian Journal of Research*.

THE ONTARIO RESEARCH FOUNDATION, 47 Queen's Park, Toronto (*Director*, Dr. H. B. Speakman), was established in 1928 at the instigation of the Prime Minister of the Province. An endowment fund was created from subscriptions made over a period of 5 yrs. from manufacturers, corporations and private individuals, and from contributions from the Provincial Government on a £ for £ basis. Quarters in Queen's Park were set aside by the Govt. for offices and laboratories.

Researches have been carried out for the benefit of industry and agriculture and to develop the natural resources of the Province. Government depts. have co-operated in some of these investigations, and industrial problems have been studied on behalf of individual firms or groups of manufacturers.

A study is being made of the lignite deposit in Northern Ontario and

of the low grade iron ores of the Province. The control and possible eradication of Bovine Contagious Abortion has been under investigation for 3 yrs. and parasites in animals are also being studied. Researches in industrial problems have included textiles, meat-packing, food chemistry, ceramics, fuel, gas, metals and leather.

THE RESEARCH COUNCIL OF ALBERTA created in 1921 as the Scientific and Industrial Research Council of Alberta was incorporated under its present title by act of the Provincial Legislature in 1930. The laboratories of the Council are established at the University in Edmonton. Its principal work is organized in three divisions as follows: (1) Geological Survey, including general surveys within the Province, and special investigations of coal, oil, gas and other mineral resources. (2) Fuels, including extensive analyses and tests of coals and other fuels, coal cleaning, briquetting and classification, also furnace tests. (3) Road Materials, especially the separation of bitumen from the bituminous sands of the Province and its adaptation to road treatment and other uses. Special investigations such as domestic water supply, soil surveys and the utilization of natural gas have also been undertaken. In some investigations the Provincial Council works in co-operation with the National Research Council.

THE NOVA SCOTIA ADVISORY BOARD ON FUEL INVESTIGATION was established by the Provincial Govt. in 1924, and is working in co-operation with the Dominion Dept. of Mines, the Dominion Fuel Board and the National Research Council on experimental work mainly provincial in significance. The work is carried on at the Nova Scotia Technical College, Halifax, and consists principally of chemical analyses and boiler trials.

THE MANITOBA INDUSTRIAL DEVELOPMENT BOARD has recently appointed a special Committee for Scientific and Industrial Research which, after studying the need for research into a number of local problems, have recommended the Government to establish a Manitoba Research Institute.

THE FOREST PRODUCT LABORATORIES of the Dominion are maintained by the Dominion Forest Service of the Dept. of the Interior. The Labs. were started on a small scale in 1913 in Montreal, but have now expanded to 3 well-equipped units: (i.) the *Main Laboratories* at Ottawa, (ii) the *Pulp and Paper Division* at Montreal, working in close co-operation with the Pulp and Paper Assn. of Canada, (iii) *Branch Laboratory* at Vancouver. The total staff, scientific, executive and clerical, numbers about 70, over 30 of whom are univ. graduates in science. The laboratories occupy a floor area of over 1 acre, and operate under the following divisions: (a) Pulp and Paper, (b) Wood Preservation, (c) Timber Mechanics, (d) Lumber Seasoning, (e) Timber Physics, (f) Wood Utilization, (g) Timber Pathology, (h) Markets and Exhibits, (i) Wood Chemistry.

Pulp and paper is now Canada's most important manufactured product, and there is a growing appreciation of the importance of scientific processes for the elimination of waste. The wood-using industries are second only to agriculture in size.



The laboratories are being increasingly used as a bureau of technical information by the wood-using industries. The data from its own researches or from sources of reference in its library on wood utilization are available. In 1931 over 2000 technical inquiries were dealt with. List of pubns. sent on application.

Some of the more important problems studied in 1932 included ·

(i) Main Laboratories.

*Wood Preservation Divn.* Fire retardant treatment of timber; Steam seasoning of red pine and jack pine poles; Heat transfer in timber during preservative treatment; Open tank treatments of lumber and timbers; Prevention of bleeding of timber after impregnation with creosote; Creosote treatment of hardwoods in the green condition for railway sleepers; The treatment of Canadian cedar for pencil slats.

*Timber Mechanics Divn.* The strength of structural timbers; Mechanical and physical properties of woods grown in Canada; The design of nailed wooden containers.

*Lumber Seasoning Divn.* The kiln-drying of Canadian woods; Equilibrium moisture content of lumber at different seasons of the year; Cause and prevention of degrade in air-seasoning; Shrinkage and expansion of commercial sizes of Canadian woods.

*Timber Pathology.* Blue stain in pine; Decay of pulpwood when stored in block piles; Decay in buildings; Red stain in jack pine.

*Timber Physics.* Variability in wood; Penetration of fluids in porous woods; Relation of wood structure to finishing properties.

*Wood Chemistry.* The chemical composition of Canadian woods; The finishing of wood.

(ii.) Pulp and Paper Division, Montreal.

The classification of pulp by selective screening; The use of the British Standard Sheet Machine as a freeness tester; The effect of surface tension and temperature on sheet making; The effect of heat on the strength properties of beaten pulp; Semi-commercial pulping with control of liquor concentration in the soda and sulphate processes; The effect of sulphidity in kraft liquors on strength yield and colour of pulp; Relative yields and quality of unbleached pulp from spruce and balsam fir.

(iii.) Vancouver Branch.

*Timber Mechanics Divn.* Mechanical and physical properties of B.C. woods; Tests on Douglas fir and lodgepole pine telephone poles; The relation between moisture content and strength of wood.

*Timber Produces Divn.* Absorption of moisture by seasoned lumber in storage and transit; Effect of seasoning on insects injuring lumber; Studies of sawmill and logging waste; Effect of colouration on the properties of western red cedar and Douglas fir; Development of stain and decay in lumber during shipment by water; Effect of kiln-drying on the sterilization of lumber.

Outside research workers are admitted to the Laboratories. Inquiries should be addressed to the Superintendent, Forest Products Laboratories, Ottawa.

THE FUEL RESEARCH LABORATORIES of the Department of Mines were erected in Ottawa in 1927-28. The work of the laboratories is

organized in the following divisions: (1) Mechanical Engineering, (2) Coal Carbonization and Briquetting, (3) Oil Shale investigations, (4) Oils and Natural Gas (Chemical Lab.), (5) Solid Fuels analyses (Chemical Lab.), (6) Mechanical (machine shops, etc.).

Besides the chemical laboratories and large laboratory-scale research apparatus, the equipment includes: (i.) commercial by-product recovery coke plant; (ii.) experimental domestic heating plant; (iii.) commercial-scale pulverized fuel steam generating plant; (iv.) commercial-scale briquetting plant; (v.) large-scale coal-washing plant. The main objective of the laboratories is "to gather reliable information regarding the chemical and physical properties of the fuels in Canada and to ascertain the best purposes for which they may be utilized." The investigations into solid fuels include, as do those of the British Fuel Research Station at Greenwich (*see* A. V. 2 *supra*), a chemical and physical survey of coal seams *in situ*.

Inquiries to be addressed to The Director, Mines Branch, Dept. of Mines, Ottawa.

#### MEDICAL.

THE BANTING INSTITUTE FOR MEDICAL RESEARCH, University of Toronto, was opened in 1931. It is occupied by the following medical depts.—Path., Bact., Neuro-pathol., Med., Surg., Pathological Chem. These depts. carry on teaching, routine laboratory work in connexion with clinical investigation and research work. The Banting and Best Dept. of Medical Research occupies one floor of the Institute, and is devoted entirely to research work.

## II. AUSTRALIA

THE NATIONAL RESEARCH COUNCIL was founded in 1921 to represent Australia in the International Council of Scientific Unions (formerly Internat. Research Council), and also serves as a national academy of pure and applied science (all branches). Address: The Hon. Secretary, National Research Council of Australia, Kelvin House, 15 Castlereagh Street, Sydney.

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, 314 Albert St., Melbourne. Established by the Science and Industry Research Act, 1926, and has taken the place of the former Institute of Science and Industry, which was constituted in 1920, and had succeeded a temporary Advisory Council of Science and Industry created in 1916. The Council consists of 3 nominees of the Commonwealth Government, the Chairman of each State Committee constituted by the Act, and other persons co-opted for their scientific knowledge. Its main functions are: (a) to carry out scientific researches in connexion with the primary and secondary industries of Australia; (b) to train research workers; (c) to make grants in aid of pure scientific research; (d) to carry out the testing and standardization of scientific instruments and apparatus; and (e) to act as a means of liaison between the Commonwealth and other countries in matters of scientific research. In the formation of

the Council, the Government made a grant to it of a sum of £250,000 for research work and investigations for an unspecified period. A like sum was made available to the Council by the Government two years later. The Council has decided to concentrate efforts mainly on 5 major branches, viz : (a) soil problems, (b) plant problems, (c) animal problems, (d) forest products, (e) entomological problems, and (f) preservation of foodstuffs, especially cold storage. Already Divisions of Animal Nutrition, Animal Health, Plant Industry, Soils Research, Economic Entomology, and Forest Products have been organized. A Section of Food Preservation and Transport has recently been established. The Council maintains or assists the following *Research Stations*

For *Citriculture*. A Research Station was established at Griffith, Murrumbidgee Irrigation area, N.S.W., some years ago, and is now owned and financed jointly by the Council and the Water Conservation and Irrigation Commission, N.S.W.

For *Viticulture*. The Council maintains a Research Station at Merbein, near Mildura, formerly under the control of the Mildura Vineyards Protection Board.

For *Economic Entomology and Plant Industry*. Laboratories at Canberra for Economic Entomology and Plant Industry have been erected and equipped. They are designed to allow of their incorporation in future with a central administrative block.

For *Animal Health*. The erection of a Laboratory, called "The F. D. McMaster Animal Health Laboratory," has recently been completed in the grounds of Sydney Univ. from a gift of £20,000 by Mr. F. D. McMaster, a pastoralist of "Dalkerth," N.S.W. The problems being investigated relate mainly to the health of sheep.

A laboratory for the investigation of animal health problems affecting cattle in Northern Australia has been established at Townsville, Queensland, in co-operation with the Queensland Dept. of Agriculture and Stock.

For *Animal Nutrition*. A laboratory has been built at Adelaide in close connexion with the University for fundamental work on animal nutrition problems. This work is linked up with field, calorimetric, and other work at the Waite Agricultural Research Institute (*see below*) and with field stations in various parts of Australia.

For *Forest Products*. A temporary laboratory has been established at Melbourne, and work on timber seasoning, timber utilization and preservation, and other forest product problems is now actively in progress.

For *Soils Research*. A laboratory erected from a gift to the Univ. of Adelaide by Mr J. Darling in the grounds of the Waite Agricultural Research Institute, Adelaide, had been equipped and staffed, and is being maintained by the Council as a Soils Research Laboratory.

For *Food Preservation and Transport*. A laboratory for this work has been erected in the abattoir building of the Queensland Meat Industry Board, Brisbane.

The Council is working in close co-operation with the State Government Departments, the Universities, and other institutions. It is also

co-operating with the British Dept. of Scientific and Industrial Research, and with similar institutions in other parts of the Empire.

Inquiries to be addressed to the Secretary.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE (formerly the Australian Institute of Tropical Medicine), Sydney Univ. See p 512.

### *New South Wales*

MARINE BIOLOGICAL STATION, Port Jackson, See p. 512.

### *Queensland*

BUREAU OF SUGAR EXPERIMENT STATIONS, Brisbane. Soil research work, sugar mill technology, entomological investigations in relation to insects injurious to sugar cane, and pathological investigations into the control of diseases of sugar cane in Queensland. At present outside research workers are not admitted. Inquiries to be addressed to the Director.

### *South Australia*

THE WAITE AGRICULTURAL RESEARCH INSTITUTE, Glen Osmond, S. Australia (*Director*, Prof. A. E. V. Richardson), for research in Agric., Agric. Chem., Plant Pathol., Plant Physiol. and Entomol., was founded with a private endowment in 1924 under the control of the University of Adelaide. A Division of Soils, of the Council for Sci. and Indust. Research, has been establd. under the control of Prof. J. A. Prescott. The Waite Inst. is carrying out co-operative investigations with the Council for Sci. Research and the Empire Marketing Board on the mineral deficiencies of pastures, and with the Council for Sci. Research on virus and soil-borne fungus diseases. Income, £25,000.

For names of staff, see p. 491.

KOONAMORE FIELD LABORATORY is also attached to Adelaide Univ. See p. 492.

### *Western Australia*

THE MOUNT BARKER FRUITGROWERS' CO-OPERATIVE SOCIETY, Mount Barker, started a small experiment station of 8 acres in 1928, one acre planted with year-old trees. The work includes manurial experiments, green manuring, and different methods of planting and cultivation. Another acre of fruit trees has been planted for further experiments, including a supply of stocks received from East Malling. Outside research workers welcomed.

## III. NEW ZEALAND

THE NEW ZEALAND COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Wellington, N.Z., was established in 1926 and functions through a corresponding Dept. of Scientific and Industrial Research. The Council acts in an advisory capacity to the Government on all aspects of research, with the exception of medical research, and, through

the Dept., undertakes specific research work. Investigations are proceeding in connexion with the following: Dairying; Wheat, Flour, and Bread production; Seeds and Plants; Noxious Weeds Control; Mineral Content of Pastures; Phormium; Pig production; Pork and Bacon manufacture; Wool; Fuel; Fruit, Cold Storage; Pakihi Lands; Leather; Standards and Standardization; and Radio. Wherever possible the investigations are carried out at already established institutions, such as the four University Colls., the two Agricultural Colls., Cawthron Institute, and the laboratories of the Dept. of Agriculture. Each research fund is under the immediate direction of a Committee representative of the industry contributing towards the cost of the work, and of the Council. Funds for research are secured partly from Government grants, partly from amounts provided by the various industries, and from the Empire Marketing Board. The expenditure on research for the financial year 1931-32 was approximately £39,000, of which £16,000 was provided by industry and the E.M.B.

The branches of the Dept. of Scientific and Industrial Research, viz. Dominion Laboratory, Geological Survey Office, Meteorological Office, Dominion Observatory, Christchurch Magnetic Observatory, and Apia Observatory, all undertake a certain amount of research work, and their staffs are available for co-ordinated investigations

Cawthron Institute, Nelson, founded 1915, is a privately endowed research Institute, income £12,000 p.a. and grants from the N.Z. Department of Sci. and Ind. Research and fruit interests, whose main lines of investigation are concerned with the agricultural problems peculiar to the Nelson district. On account of the importance of fruit-farming in that district, the investigations deal with soil surveys, fruit-tree culture and manures, orchard entomology, mycology, and chemistry, and fruit storage. With the assistance of grants from the Dept. of Sci. and Ind. Research, work is also being carried out on biological control of noxious weeds, mineral content of pastures, cold storage of fruit, and utilization of Pakihi soils.

THE STATE FOREST SERVICE (headquarters, Wellington) conducts investigations into the development and utilization of both indigenous and exotic forest timbers.

THE DEPARTMENT OF AGRICULTURE undertakes (1) veterinary research at its Wallaceville Laboratory near Wellington, (2) farm management investigations, (3) chemical investigations of all problems connected with agriculture.

CANTERBURY AGRICULTURAL COLLEGE, Lincoln. An annual grant of £3700 for research is made to Canterbury Agricultural Coll., and, as a result, investigations are proceeding on wheat and other cereal crops, grasses and pasture plants, animal nutrition and disease, farm economics and wool production. The WHEAT RESEARCH INSTITUTE is established in association with Canterbury Agricultural College.

MASSEY AGRICULTURAL COLLEGE, Palmerston North. Research into wool production, phormium culture, grasses and pastures are proceeding. The College is the chief centre for research in problems con-

nected with sheep and wool and the major portion of its activities is concerned with this field of investigation. There are excellent facilities for research, and post-graduate research students are accepted without the payment of fees. The DAIRY RESEARCH INSTITUTE and the PLANT RESEARCH STATION are located adjacent to Massey Agricultural College.

UNIVERSITY COLLEGES AT AUCKLAND AND WELLINGTON, CHRISTCHURCH AND DUNEDIN, undertake research work in a number of different subjects. This work is promoted by outside grants, or by funds specially available to each College, or by research scholarships, particularly at Dunedin and Auckland.

National Research Scholarships. See Appendix XXIII. 23.

#### IV. SOUTH AFRICA

THE RESEARCH GRANT BOARD of the Union of South Africa, P.O. Box 1132, Johannesburg, was instituted in 1918. The principal functions of the Board are to advise the Government generally regarding the encouragement of research in the Union and to administer all Government grants in aid of research. It is also the body through which the Union of South Africa is affiliated to the International Research Council. During the financial year 1925-26 the Board was provided with a sum of £1850 for the work of miscellaneous research. Since that date a sum not exceeding £2000 p.a. has been placed at the disposal of the Board by the Government. In addition to grants-in-aid for the furtherance of research in connexion with the development of the country, the Board appointed a Committee to make a physical and chemical survey of the coal resources of the Union, which, on the completion of its work, was dissolved in 1928. The Board, at the request of the Carnegie Corporation, is also collaborating with the Dutch Reformed Church in research in connexion with the "Poor White" problem of the Union. The report on this investigation is now in course of publication, the cost of which is being borne by the Carnegie Corporation of New York.

INTELLIGENCE SURVEY. A Committee was appointed by the Board in 1924 to conduct a comprehensive intelligence survey of the Union of South Africa. A system of tests considered suitable to the country was drawn up, and norms have been worked out for children of the ages 120 to 192 months old. The results of this survey have been published and are also to appear as part of the report on the Poor White Question.

VETERINARY RESEARCH LABORATORY, Onderstepoort, Transvaal (Director—Dr. P. J. du Toit), is probably one of the largest Veterinary Research institutions in the Empire. The staff includes 25 professional officers. The most important subjects of research comprise protozoal, virus, and bacterial diseases, helminthology, entomology, poisonous plants, the pathology of these diseases and special pathological problems, mineral metabolism, and other nutritional problems, sterility in cattle and sheep, and other obstetrical and physiological problems. A number of vaccines and wireworm remedy for sheep are prepared and issued on

a large scale. Moreover, a considerable amount of diagnostic work for stock farmers is done.

The Faculty of Veterinary Science of the Univ. of South Africa associated with the training of veterinarians in the Union has been admirably incorporated in the activities of the Research Laboratory at Onderstepoort.

Inquiries should be addressed to the Director of Veterinary Services, P.O. Onderstepoort.

THE SOUTH AFRICAN INSTITUTE FOR MEDICAL RESEARCH, Hospital St., Johannesburg. Postal address—P.O. Box 1038. Telegrams, "Bacteria." Researches in pathology include tissue culture *in vitro*; comparative immunity of reptiles and the higher animals to bacterial toxins and snake venoms; active and passive immunity to snake venoms. Parasitological researches in connexion with trematodes and esp. in relation to bilharzial disease, etc. Entomological researches into the bionomics more particularly of anopheline mosquitoes and the fleas of veld rodents. Biochemical investigation in connexion with vitamins, dental caries, calcium metabolism, etc. Publications either by the Institute or in various medical journals.

LOW TEMPERATURE RESEARCH LABORATORY, Cape Town. Established in 1926 by the Union Department of Agriculture as a section of the Division of Plant Industry for investigations into the safe transportation of perishable products. The Officer-in-Charge is also Technical Adviser to the Perishable Products Exports Control Board and designer of all pre-cooling establishments belonging to the Government Railways. Close contact is maintained with the Low Temperature Research Station, Cambridge, and other Dominion research workers. Inquiries to be addressed to the Govt. Physicist (Dr. E. A. Griffiths), 91 Parliament St., P.O. Box 3, Cape Town.

FOREST RESEARCH STATION, Deepwells, Knysna, C.P., maintained by the Union Forest Department for the study of various ecological and biological features of the indigenous forests, the rate of growth of natural regeneration and of plants set out in forests under varying degrees of canopy and kinds of site.

STELLENBOSCH UNIV., DEPT. OF POMOLOGY, for study of deciduous and citrus fruit trees. The systematic study of varieties, survey of farming conditions and root stock investigations.

*Viticultural Dept.* for studies in wine and spirit production, table grapes, raisins, etc., new grape varieties, different methods of trellising and pruning, interrelation of stock and scion, etc.

THE EMPIRE COTTON GROWING CORPORATION (*see* Appendix XXIII. 3 above) maintains an Experiment Station for plant breeding, plant physiology, and the investigation of methods of control of insect pests in connexion with cotton-growing at Barberton, Eastern Transvaal. Director—F. R. Parnell, M.A. Camb. The Station is equipped with new laboratories and an experimental farm. There is also a Station for plant breeding at Magut, near Vryheid, Natal.

## V. INDIA

AGRICULTURE AND VETERINARY SCIENCE.*Government of India*

[For the following information as to the Imperial Council of Agricultural Research, the Editor is indebted to the Vice-Chairman of the Council, Diwan Bahadur Sir T. Vijayaraghavacharya, K B E.]

THE IMPERIAL COUNCIL OF AGRICULTURAL RESEARCH was constituted by a Resolution of the Govt. of India (May 23, 1929) with the following objects .

- (a) The promotion, guidance, and co-ordination of agricultural research throughout India.
- (b) The training of research workers under a scheme of research scholarships or in other ways.
- (c) The collection and dissemination of information in regard to agricultural and veterinary matters generally.
- (d) The publication of scientific papers, etc.

The Govt. of India undertook to make the following grants to the Research Council, subject to the vote of the Central Legislature :

- (a) A grant to cover the administrative charges of the Council ;
- (b) An annual grant for research of five lakhs ;
- (c) A lump grant of 25 lakhs to form the nucleus of a non-lapsing research fund which would enable the Council to make definite provision for research schemes.
- (d) A special grant of Rs. 10 lakhs was sanctioned by the Govt. of India in 1930-31 to help the sugar industry, and similar grants are likely to be given in the future

The Governing Body is a non-technical body presided over by the Hon. Member of the Viceroy's Council in charge of the portfolio of agriculture, and including as members the 10 Ministers of Agriculture in the provinces, 3 representatives of the Central Legislature, 2 representatives of Commerce, 2 representatives of the Advisory Board, and such addnl. representatives as the Governor-General in Council may appoint, a provision which will allow of the representation of Indian States whenever necessary. The Vice-Chairman of the Governing Body is Vice-Chairman of the Imperial Council of Agric. Research and its principal administrative officer. The Advisory Board is the technical section of the Council, and includes the reprs. of provincial agric. and vet. depts. of research institutes and of assns. organized for research and of univs., a co-operative representative and addnl. scientific reprs.

The advisory work connected with the Govt. of India's policy towards agricultural matters in general, and those matters such as legislation against diseases and pests and the regulation of imports which are reserved for central legislation and central executive action, is now performed by the Vice-Chairman of the Research Council in consultation with his Expert Advisers. There is the further important development that matters of general importance can be referred by the



Govt. of India and by Local Govts. and such Indian States as have joined the new organization to the Imperial Council of Agric. Research as a whole.

The whole-time staff consists of the Vice-Chairman, 2 Expert Advisers and the Secretary.

The Council has been registered as a Society under the Societies Act in order that it may possess the financial independence necessary for its work.

The research side of the Society is defined as follows in the Memorandum of Association :

- (a) To aid, develop and co-ordinate agricultural and veterinary research in India by promoting scientific (including technological) research, instruction, and experiments in the science, methods, and practice of agriculture (incl. marketing of agric. produce) and by promoting veterinary research and instruction in vet. science, by the diffusion of useful information and by such other means as appear calculated to develop agric. and vet. research.
- (b) To act as a clearing house of information not only in regard to research, but also in regard to agric. and vet. matters generally.
- (c) To establish and maintain a research and reference library in pursuance of the objects of the Society with reading and writing rooms, and to furnish the same with books, reviews, magazines, newspapers, and other publications.

In addition to its main objective—the fostering of research work—the Council is charged with the dissemination of information and the encouragement of post-graduate training in the various branches of science and technology as applied to agric. In countries like India, where research workers are necessarily scattered and distances great, there is obviously need for an agric. information bureau, and a start has been made by subscribing to the 8 Imperial Agricultural Bureaux recently established in England on the recommendation of the Imperial Agricultural Conference of 1927 (*see A. VIII. supra*). The Expert Advisers to the Imperial Council of Agric. Research will act as official correspondents with the bureaux, but the essence of the new organization is that individual res. workers will themselves correspond freely with the bureaux. There have already been gratifying indications that the Imperial Council of Agric. Res. will receive the whole-hearted support both of agric. workers in India and res. workers in the cognate sciences in their efforts to collect, for supply to other workers in India and for transmission to the Imperial Bureaux, full particulars of work done in India and suggestions for further work to fill in gaps in existing knowledge. The measures necessary to build up in India a more adequate corps of scientific workers for the improvement of Indian agric. are being continuously studied.

The Res. Council, though at present mainly financed by the Govt. of India, is free to receive contributions from other sources, and has in fact already received the handsome gift of two lakhs of rupees from the Govt. of H.E.H. the Nizam's Dominions. The Govts. of Mysore and Baroda have also each agreed to pay a donation of Rs. 100,000 in

20 annual instalments. It is hoped that many more such contributions from Indian States and private benefactions will be received. The Res. Council's power to aid Indian agric. is only limited by its financial resources. It stands in the same relation to all res. institutions, whether official or unofficial, central or provincial, and promotes res. by grants to existing instns. The res. grants so far sanctioned amount to about Rs 38,50,000 (about £288,750).

IMPERIAL INSTITUTE OF AGRICULTURAL RESEARCH, Pusa, Bihar, founded 1904 from a fund of £30,000 given to the Viceroy, Lord Curzon, by Mr. Henry Phipps, an American philanthropist, for some object of public utility in India, preferably scientific research. Part of this gift was spent in building the Pasteur Inst. at Coonoor, S India, and the balance on a laboratory for agric. research at Pusa. The scheme was later enlarged, and a college and research inst., with an experimental and demonstration farm of 830 acres, was established at Pusa under the Central Govt. There are 6 sections—Agric., Bot., Chem., Mycol., Entomol., and Bacteriol.; Herbaria, a museum, and a scientific library. There are sub-stations at Coimbatore, Bangalore and Wellington in South India and at Kamal in North India. The research is devoted in the main to problems of all-India importance. The Inst. also supplies information and advice to inquirers.

IMPERIAL INSTITUTE OF VETERINARY RESEARCH, Muktesar, U.P., conducts research in diseases of domestic animals. Applications from outside research workers to visit the Inst. should be addressed to the Director.

*Telegrams*—"Vetex," Muktesar-Kumaun.

CENTRAL BOARD OF IRRIGATION. A body consisting of all the Chief Engineers (Irrigation) in India: its object is the exchange of information and experience on irrigation and allied subjects among the Irrigation Departments in India. Attached to the Board are a library and an information bureau. The Board, through its bureau, maintains touch with other bodies having similar interests throughout the world. The Board meets annually in November, the Research Committee, in July; the Executive Committee meets quarterly. The office of the Board, the information bureau and the library are under the direct control of a permanent technical Secretary. Address: The Secretary, Central Board of Irrigation, "Kennedy Cottage," Simla, India.

### *Assam*

TOCKLAI EXPERIMENTAL STATION is maintained by the Indian Tea Assn. It is sp. concerned with the improvement of manufacture, and the study of factors influencing crop-production. Outside research workers not received.

### *Indore*

INSTITUTE OF PLANT INDUSTRY, Indore. Established 1924. Incorporated 1928 as a Society. Many of the States in Central India and Rajputana are members, giving yearly subscriptions and donations. Indian Central Cotton Committee provided buildings and equipment

and guarantee annual grants. Objects : (i.) Investigation of all matters relating to the production and improvement of raw cotton in India. (ii.) Agricultural development of the territories of the Princes and Chiefs who are members of the Society. (iii.) Training of nominees of such Princes and Chiefs and of advanced students nominated by the Indian Central Cotton Committee. Occasionally outside research students are accepted

Is carrying on research on cotton, especially in relation to the black soils of the district and production of improved varieties for local conditions ; also on other crops bound up with the agricultural economy of the areas dealt with. The Director (F. K. Jackson, N D.A., Dip. Agr. Camb.) is also Agricultural Adviser to States in Central India and Rajputana.

### *Madras*

There are 3 Fruit Stations, at Coonoor, Burhear, and Kallar. Coonoor is investigating varieties of Japanese plums, and miscellaneous sub-tropical fruit, especially in relation to climatic conditions. Burhear and Kallar are attacking the problem of propagating the mangosteen. Outside research workers not admitted. Inquiries to be addressed to the Curator, Government Botanic Gardens, Ootacamund.

### *Mysore*

DEPARTMENT OF AGRICULTURE, MYSORE STATE. There are extensive research laboratories in Bangalore for Agric. Chem., Plant Breeding, Plant Pathol., Entomol. investigations, and a Veterinary Serum Institute where research is prosecuted into the diseases of cattle and sheep.

Besides these there is a Coffee Experiment Station near Balehonner in the Kadur district where work on coffee disease problems is closely co-ordinated with breeding and grafting work, sp. areas being set aside for testing disease-resisting powers of selections.

The United Planters Association's (S. India) Coffee Scientific Officer is attached to the Station, and is engaged on phytopathological investigation in co-opn. with the Dept. in work on disease resistance in the selections made. Physiol. problems bound up in flower bud production, fruit setting, and fall of partly developed fruit are also being studied, and the root systems of commonly planted types of coffee.

All these are under the control of the Director of Agriculture, Bangalore, Mysore State, to whom applns. should be made by investigators wishing to work in the labs.

*See also under* Medicine—Pasteur Inst. of Southern India.

### FORESTRY.

#### *Government of India*

The *Forest Research Institute*, Dehra Dun, U.P. (*President*—A. D. Blascheck, F.C.H., Oec.D., Inspector-Genl. of Forests), the largest in the Empire, if not in the world, opened Nov. 1929. Dehra Dun has been a centre of scientific forest work since 1878. The building is surrounded by 1200 acres of land, part of which is devoted to experimental

gardens and plantations. The Silviculture Branch investigates the principal problems presented by the forests of India and co-ordinates work done throughout the provinces. The Economic Branch includes sections dealing with timber testing, wood seasoning, wood preservation, wood technology, wood working, minor forest products, and paper pulp. The Chemical Branch deals largely with minor forest products, while the Entomological and Botanical Branches make independent investigations apart from advising the Forest Dept generally and the Institute in particular. Valuable collections are maintained illustrating the scope of forestry in India. There are two forest colls attached to the Institute; the senior coll for training men for direct appointment as forest officers has been closed temporarily owing to a reduction of posts by provincial governments; the junior coll for training forest rangers provides a 2 years' course including prolonged tours for practical work in the forests of the United Provinces. Inquiries should be addressed to the President, Forest Research Institute and College, Dehra Dun, U.P., India.

#### INDUSTRIAL.

##### *Bengal*

INDUSTRIAL RESEARCH LABORATORY AND BENGAL TANNING INSTITUTE, Calcutta, maintained by the Bengal Government. The Tanning Institute started in 1919 has a research organization. It now combines research with technical instruction in all aspects of the leather trade, including investigations into local tanstuffs. The Industrial Research Laboratory was built on the same site in 1927. It has two depts., Chemical and Engineering. In the former researches are conducted which have a bearing on the chemical engineering problems involved in utilizing the natural resources of the province such as oil seeds for the soap industry, shellac, compositions for matches, problems of dyeing for textiles, etc. In the Engineering section of the Laboratory research is confined to the problems of devising improved plant and apparatus for various indigenous industries, such as forged and cast brass and bell metal ware, cutlery, marking and bending of umbrella handles, pottery equipment and, recently, researches into the problems of drying rice grain before husking, and soap and other articles, in regard to which drying by solar exposure is difficult during the monsoon. No regular provision for research students is made, but training classes for instruction are arranged. Industrial inquiries to be addressed to the Director of Industries, Bengal, Calcutta.

##### *Bihar and Orissa*

THE INDIAN LAC RESEARCH INSTITUTE, Namkum, Ranchi, Bihar and Orissa, formerly maintained by the Indian Lac Association for Research, Royal Exchange, Calcutta, is financed by a cess on the exports of shellac from India. It conducts research into the cultivation of lac and the manufacture of shellac.

This research is important, as the competition from synthetic products

is on the increase. It falls under three main heads, Bio-Chemical, Entomological, and Physico-Chemical; and consists in, firstly, the investigation of the morphology, bionomics, and physiology of the lac insect *L. lacca*, and of the insect parasites and predators affecting it; secondly, in the investigation of the host trees on which the insect lives, their growth, insect pests and methods of cultivation, and thirdly, the relationship between insect and host.

The Physico-Chemical research consists in the investigation of improved methods of manufacture, the standardization of the resulting shellac, and the use of shellac in various industries.

The Lac Cess Act, 1930, provides for Govt control of the Indian Lac Research Inst. It does not affect the objects of research.

Training in improved scientific methods of lac cultivation can be arranged for Forest Officers and others interested in the matter. Inquiries to the Secretary, Indian Lac Cess Committee, Namkum, Ranchi, Bihar and Orissa.

### *Bombay*

TECHNOLOGICAL LABORATORY, Matunga, Bombay (*Director*—Nazir Ahmad, M.Sc., Ph.D.), maintained by the Indian Central Cotton Committee. Opened in Dec. 1924; total cost, £105,000. Its chief work is the making of spinning tests on cottons grown in all parts of India, and the investigation of fibre properties affecting the spinning quality of cotton. The Committee makes grants-in-aid to Provincial Depts. of Agric. for research work on cotton. Outside research workers not admitted as a rule.

### *United Provinces*

HARCOURT BUTLER TECHNOLOGICAL INSTITUTE, Cawnpore, U.P., estd. 1921. This Inst., which is primarily intended to train men for responsible positions in industry, also has facilities for research. Organized in the following depts.—Oil, Sugar. There is also a general workshop, engin. lab., and library. Contact with the requirements of industry is maintained by a Standing Committee on Research.

[For further information about many of the foregoing instns., see Handbook of Indian Universities, pubd. by the Inter-University Board, Cawnpore, India.]

## PURE SCIENCE.

### *Bengal*

THE BOSE RESEARCH INSTITUTE, Calcutta, founded by Sir J. C. Bose, F.R.S., the Director, in 1917, is concerned especially with Plant and Animal Biology. Workers of all countries are admitted so far as the limited accommodation permits. It receives an annual grant from the Govt. of India of Rs. 103,000.

THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE, 210 Bowbazar Street, Calcutta, founded in 1876 by the late Dr. Mahendra Lal Sircar with the object of providing facilities for scientific research in India, is equipped with a Laboratory built at the expense of the late Maharaja of Vizianagram, a library, an astronomical observatory,

and a fine lecture hall. Considerable improvements in the Laboratory have been made of recent years, and it is now admirably adapted for researches in various branches of Physics, Chemistry, and Mineralogy. The direction of research is in the hands of the Hon. Sec., Sir C. V. Raman, F.R.S., Director, Indian Institute of Science, Bangalore. The Lab. is open to qualified workers from all parts of India. Special facilities for work in X-rays, magnetism, and spectroscopy. The Institute receives a grant of Rs. 20,000 p.a. from the Govt. of India.

### *Bombay*

THE ROYAL INSTITUTE OF SCIENCE, Bombay, is designed to conduct undergraduate teaching side by side with post-graduate research in the Departments of Chemistry (Physical, Inorganic, and Organic), Physics, Zoology, and Botany.

### *Mysore*

THE INDIAN INSTITUTE OF SCIENCE, Bangalore (*Telegrams*—Science, Bangalore, Code ABC 5th edn), established and originally endowed by the late Sir Dorabji J. Tata and the late Sir Ratan Tata, has as its object the promotion of advanced studies and original research with special regard to the educational and economic interests of India (v. p. 663). Its total income is now approx. Rs. 5 80 lakhs, towards which the Government of India contributes Rs. 1.5 lakhs, the Government of Mysore half a lakh, the Government of Hyderabad Rs. 10,000, and the Govt. of Madras Rs. 5000. During recent years the Dept. of Elect. Technology has been greatly enlarged in order to satisfy the demand for qualified elect. engineers caused by electrical developments in India.

### *United Provinces*

MUSLIM ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Aligarh. Founded, 1931, with the object of stimulating the spirit of original scientific work in the Moslem Univ. Subsequently its Council was extended to include representatives of the Hyderabad State and of other univ. or research instns. in British India having Mohammedan scientists on their staff. Public lectures are given at Aligarh and elsewhere. Researches on physical, chemical and biological subjects are being published in the *Proceedings*. Further particulars from the Hon. Secretary, Dr. M. Baber Mirza, Director, Zoological Laboratories, Mushum University, Aligarh.

### MEDICINE.

*Medical research* is systematically arranged for by the Government of India, either directly or through local Govts, at central or provincial institutions.

### *Government of India*

THE CENTRAL RESEARCH INSTITUTE, Kasauli (*Telegraphic Address*—"Problem"), is the Medical Research Institute of the Government of India, situated in the Himalayan foot hills, about 50 miles from Simla. With it is associated the Malaria Survey of India, at present financed by

the Indian Research Fund Association until such time as it may be taken over by Govt. The work of enlarging and remodelling the buildings of the Institute is in progress. When completed this will allow of increased accommodation for research workers and a considerable extension of the activities of the Institute.

The functions of the Institute are of an All-India character and only incidentally local. It is the headquarters for basic research, inquiries in the field and other medical research activities connected with the Government of India, and is very closely linked with the Indian Research Fund Association, which maintains a publication office for the *Indian Journal of Medical Research* and *Indian Research Memoirs*, a special library for the assistance of Indian Research Fund Assn. workers in the field, and a store at the Institute. The Inst. also manufactures on a large scale anti-typhoid, anti-cholera, and influenza vaccines and antivenomous serum (antivenin), of which, taken together, about 2 million c.c. are issued annually.

General facilities are given to a certain number of persons to study or gain experience in the laboratories, but the chief outside relations are with researches under the Indian Research Fund Assn., now largely responsible for the conduct of medical research in India.

The Director's office edits the *Indian Journal of Medical Research* and the *Indian Research Memoirs*, in which Journal and Memoirs most of the results of medical research work in India are published. The Malaria Survey of India publishes the *Records of the Malaria Survey of India*, a new series intended for the publication of important malaria papers and memoirs.

Inquiries should be addressed to the Director.

### Assam

THE KING EDWARD VII. MEMORIAL PASTEUR AND MEDICAL RESEARCH INSTITUTE, Shillong, was built from part of the proceeds of the Memorial Fund to King Edward VII. It was opened in 1917, and is maintained by the Government of Assam. The staff consists of the Director, who is an officer of the Research Dept., a Military Asst. Surgeon, a Military Sub-Asst. Surgeon, and one or more additional officers engaged from time to time on special Researches.

The Institute is the headquarters of the Assam Medical Research Society recently formed to investigate communicable diseases in Assam. It is at present mainly concerned with researches on cholera and dysentery bacteriophages, which are being used on a large scale in Assam. The Institute prepares all the cholera and T.A.B. vaccine for the Province of Assam, carries out routine examination for medical officers, and assists the Public Health Dept. with the investigations of epidemics. The laboratories are well equipped and up-to-date, and accommodation can generally be made for research workers. Inquiries should be addressed to the Director.

### Bengal

SCHOOL OF TROPICAL MEDICINE AND HYGIENE, Calcutta, v. pp. 613-614.

### *Bombay*

THE HAFFKINE INSTITUTE, Parel, Bombay (*Director*—Lt.-Col. J. Taylor, D.S.O., I.M.S.; *Asst. Directors*—Major S. S. Sokhey, I.M.S., M.A., B.Sc., M.D.; Dr. S. N. Goré, L.M. & S. Bombay), is the principal centre of Plague research in India. Researches are also being carried on in bio-chemistry of tropical diseases, the pharmacology of indigenous drugs, antirabic inoculation, tuberculosis, plague. The last two are carried on under the Indian Research Fund Association. The Institute is the seat of manufacture of Haffkine's plague prophylactic for the East. It also functions as the principal diagnostic centre for the Bombay Presidency and adjacent Indian States. It is one of the largest and best-equipped laboratories in the East, and can supply facilities for all kinds of research. Applications may be made to the Director.

### *Madras*

THE KING INSTITUTE OF PREVENTIVE MEDICINE, Guindy, Madras, about 7 miles from Madras, founded 1903 and named after Col. W. G. King, C.I.E., I.M.S., then Sanitary Commissioner of Madras, who was chiefly responsible for its inception. *Director*—Lt.-Col. H. H. King, I.M.S. At first its main work was the supply of vaccine lymph to the Madras Presidency, but its activities have been greatly extended. At present they are as follows: (For the whole Presidency) (1) The only lab. for the manufac. of vaccine lymph; (2) the lab. for the manufac. of all bacterial vaccines except plague, and of sterile solutions and culture media; (3) the main gen. bacteriological lab. for clin. bacteriological and serological diagnostic purposes; (4) the only Govt. Pub. Health Lab. for the bacteriolog. and chem. examn. of water supplies, milk, food, etc. (it now includes the lab. for the Public Analyst to the Govt. of Madras); (5) a cold storage and distributing centre for sera for human use; (6) a gen. clinical and pub. health research lab. and the centre for mobile investigation units; (for all the Madras Hospitals except the Gen. Hospl.) (7) the clin. bacteriological lab.

The Inst. covers several acres of ground and consists of a main building for the bacteriolog. and chem. work, a new subsidiary block for vaccine lymph work, and many outbuildings. It has its own water and gas supply, runs a large cold store and makes its own ice, and has a set of experimental water filters with storage tanks and sand and mechanical filters. Staff: Director, 1 Public Analyst, 2 Asst. Directors, 8 Asst. Surgeons, 2 non-med. gazetted Senr. Bacteriolog. and Chem. Assts., 1 Sub-Asst. Surg., 6 Junr. Bacteriolog. Chem. and Vaccine Assts., together with lab. attendants and other subordinates—total, 186.

The work done by the *Mobile Investigation Units*, the first of their kind to be formed in India, has justified their existence (cf. the *Annual Report* for 1926-27).

Recent research includes investigations into vaccine lymph, filariasis, kala-azar, relapsing fever, malaria, dysentery, cholera, puerperal sepsis, and the purification of water.



*Panjab*

PASTEUR INSTITUTE OF INDIA, Kasauli *Telegrams*—"Pasteur." The Institute exists primarily for the provision of antirabic treatment to persons who are at risk owing to bites from, or contact with, rabid animals. It has also 13 civil and 18 military treatment centres. Total no. treated annually about 10,000. The Institute is at present carrying on two researches, one on the therapeutic and morphological aspects of rabies, and one on the Trypanosomidæ. Grants amounting to Rs. 28,000 p a. to finance these researches are received from the Indian Research Fund Assn. Ample accommodation for outside research workers, who must obtain permission in the first instance from the President of the Pasteur Institute Assn. Owing to the amount of accommodation available and facilities for obtaining and housing large animals, such as monkeys, the Inst. would be especially suitable for work on filtrable viruses. Inquiries to be addressed to the Director.

*Southern India*

PASTEUR INSTITUTE OF SOUTHERN INDIA, COONOR (*Director*—Major K. R. K. Iyengar, I.M.S.). *Telegraphic Address*—Lyssa. Built with a portion of a fund of £30,000 given to the Viceroy, Lord Curzon, by Mr. Henry Phipps, an American philanthropist. In addition to affording antirabic treatment for the whole of Southern India, research work on rabies, malaria, kala-azar, filariasis, and on entomological and other subjects has been carried out by workers at the Institute, and the results have been published in the *Indian Journal of Medical Research*. The following investigations are in progress: (1) Comparative experiments to determine the immunizing value of various strengths of etherized and carbolized sheep vaccine used in antirabic treatment; (2) inquiry into the presence of cholerae in well waters before, during, and after an epidemic of cholera; (3) inquiry into the development, duration, and restoration of immunity by formalinized vaccines. Since 1918, accommodation has been given to the workers on nutritional research under the directorship of Col. R. McCarrison, I.M.S., financed by the Indian Research Fund Association.

*Burma*

PASTEUR INSTITUTE OF BURMA, Rangoon. (*Telegrams*—"Virus," Rangoon.) *Director*—Lt.-Col. L. A. P. Anderson, M.A., M.D., B.Ch., D.P.H., D.T.M. & H., F.Z.S. Opened 1915, (1) to carry out antirabic treatment, (2) to act as the Govt. Bacteriological Laboratory for Burma. Routine bacteriol. exams. and antirabic work form the greater part of its activities. Research on subjects for which there are facilities undertaken through grants usually obtained from the Indian Research Fund Assn. Subjects hitherto studied are beri-beri, leprosy, leptospirosis, antirabic vaccine, bacteriophage in dysentery and cholera, and water bacteriology. An occasional worker may be given lab. facilities by arrangement with the Director.

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THE INDIAN RESEARCH FUND ASSOCIATION, Simla, supported by its grants from the Government of India, assists in financing inquiries by

all these institutions, and employs not only Indian Medical Service Officers but also workers outside the Services in studying the most urgent tropical disease problems. The objects of the Association are the prosecution and assistance of medical research, the propagation of knowledge and experimental measures generally in connexion with the causation, mode of spread, and prevention of diseases, primarily those of a communicable nature. All proposals for research under the Association are examined by the *Scientific Advisory Board*, which consists of experts chosen from the Research Institutes of the country as well as from the central medical administration. This Committee is thus able not only to assess the value of proposals, but also to co-ordinate and prevent overlapping, and it is largely on its recommendations that the grants from the Association are made. Apart from grants-in-aid to teachers, bureaux, and publications, it has financed numerous researches, the selected results of which are published quarterly in the *Indian Journal of Medical Research* and its *Memoirs*, and in the *Records of the Malaria Survey of India*.

## VI. CEYLON

**RUBBER RESEARCH SCHEME (CEYLON).** The headquarters of the Scheme is at Culloden Estate, Neboda, where laboratories have been erected. The Scheme is financed by a cess levied on rubber exports. The present staff in Ceylon consists of 3 Technical Officers who are responsible for research work on the production of raw rubber and for advisory visits to estates. An Experiment Station (60 acres) is established a few miles from the laboratories for testing budgrafts from high yielding trees. Research on vulcanization problems is conducted at the Imperial Institute, London, where 3 Technical Officers are employed, under the control of a Committee representing Producers and Manufacturers. Address inquiries to the Director of Research, Rubber Research Laboratories, Culloden, Neboda, Ceylon. *Telegrams*—"Rubrs," Neboda.

A **TEA RESEARCH INSTITUTE** was establd by the Tea Industry in 1926. It is controlled by a Board of Management of 10 members, representative of various interests connected with tea. The Director of Agric. and Colonial Treasurer are also on the Bd. Tea pests are dealt with mainly by the Inst. Laboratory—St. Coombs, Talawakelle, Ceylon.

## VII. MALAYA

**THE RUBBER RESEARCH INSTITUTE OF MALAYA**, Post Office Box 270, Kuala Lumpur, Federated Malay States. (*Telegrams and Cables*—"Searching," Kuala Lumpur.) Estd. 1925 by the Plantation Rubber Industry of Malaya for investigations of all problems relating to the cultivation of rubber, diseases and pests of rubber, the treatment of latex, and the preparation of raw rubber for the market. The Inst. is managed by a Board consisting of: The Director of Agriculture, Straits Settlements and Federated Malay States; four members nominated by the High Commissioner, Federated Malay States; and six members

appointed by Planting Associations. It is financed by means of a cess on all raw rubber produced in, and exported from, Malaya. Organization Director, Secretary, Botanical, Chemical, Pathological, Soils and Field Divisions. Experiment Station (approx. 2000 acres), 16 miles from Kuala Lumpur. Facilities for the admission of private research workers by special arrangement with the Board

London Advisory Committee of the Institute. c/o The Imperial Institute, London, S.W.7.

*Publications.* *Journal* (quarterly), Annual Report, Manuals, Special Bulletins, Leaflets, and Information Cards.

All communications should be addressed to the Director.

INSTITUTE FOR MEDICAL RESEARCH, Kuala Lumpur (*Director*—A. N. Kingsbury), scientific staff of 10. Extensions, completed in 1928, include a lymph preparation dept., Pasteur treatment rooms, etc. The compound, about 25 acres, contains animal houses, insectarium, residential quarters, etc. The Inst. is an integral part of the F.M.S. Med. Dept., and acts as the lab. centre for the country. There is a branch laboratory in Perak. About half the time of the staff is devoted to researches on malaria, tuberculosis, leprosy, trop. typhus, and other diseases. Results are pubd. in *Studies* and *Bulletins*. Ample space and facilities for visiting workers.

#### VIII. EAST AFRICA—Tanganyika Territory

THE EAST AFRICAN AGRICULTURAL RESEARCH STATION, Amani, *via* Tanga (*Telegrams*—Director, Amani), which was opened in 1927, is a central research station maintained by the Governments of the East African Colonies and Dependencies (Kenya, Uganda, Tanganyika Territory, Zanzibar, Nyasaland, N. Rhodesia), and working on fundamental problems connected with East African crops in co-operation with the local Departments of Agriculture. The staff consists of the Director (W. Nowell, C.B.E., D.I.C.) and nine scientific officers, as well as subordinate staff. The Station is situated at an altitude of about 3000 feet in the Usambara Hills in the Tanga Province of the Tanganyika Territory, near Muhesa on the Tanga-Moshi railway. In addition to laboratories, experimental plots, etc., there is a large coffee estate attached to the Station.

The Station is primarily devoted to the investigation of problems involving "long-range" and "wide-range" research under the heads of plant pathol., soil science, entomol., plant physiol. and plant genetics. It is not a teaching institution, but facilities exist for the accommodation of a limited number of unofficial research workers, on conditions to be arranged with the Director. The immediate environment is heavy forest of tropical type.

#### IX. SUDAN

THE WELLCOME TROPICAL RESEARCH LABORATORIES, Gordon Memorial College, Khartoum, founded, equipped, and presented by Dr. Wellcome to the Sudan Govt.

## THE STACK MEDICAL RESEARCH LABORATORIES, Khartoum.

*Director*—R. G. Archibald, C.M.G., D.S.O., M.D.

Purposes: (a) To promote the study, bacteriologically, of tropical disorders, esp. the infective diseases of both man and beast peculiar to the Sudan, and to render assistance to the officers of health, and to the clinics of the civil and military hospitals.

(b) To aid experimental investigations in poisoning cases by the detection and experimental determination of toxic agents, particularly the obscure potent substances employed by the natives.

(c) To carry out chem. and bacteriol. tests in connexion with water, foodstuffs, and health and sanitary matters as may be found desirable.

(d) To undertake the testing and assaying of agric., mineral and other substances of practical interest in the industrial development of the Sudan.

Private research workers admitted to the Labs. from time to time as far as accommodation permits. Application to the Director.

## X. WEST INDIES—Trinidad

THE EMPIRE COTTON GROWING CORPORATION (*see* App. XXIII. 3 above) maintains a Research Station for the investigation of fundamental problems relating to the genetics and physiology of the cotton plant, at St. Augustine, Trinidad. Hd. of Genetics Dept., Dr. S. C. Harland; Hd. of Physiol. Dept., Dr. T. G. Mason. The Station is in close connexion with the *Imperial College of Tropical Agriculture*, where a great deal of research is going on into various aspects of tropical agriculture.

LOW TEMPERATURE RESEARCH STATION, Imperial College of Agriculture, for study of bananas, v. p. 478.

## XI. BERMUDA

THE BERMUDA BIOLOGICAL STATION FOR RESEARCH, Inc. The Station, which has worked on a small scale for 25 yrs., has received a grant of £50,000 from the Rockefeller Foundation for the purpose of developing large-scale oceanographical investigations to be linked up with those of the newly founded Woods Hole Oceanographical Institution, U.S.A. The Govt. of Bermuda has provided a site of 12½ acres with an initial grant of £5500, and is making an annual grant of £200 for 10 yrs. towards its maintenance. The Trustees appointed include 3 British experts.

The new station at Shore Hills, St. George's West, offers residential accommodation and laboratory facilities to research workers from all countries. For further information apply to the Director.

## C. INTERNATIONAL SETTLEMENT, SHANGHAI

HENRY LESTER INSTITUTE OF MEDICAL RESEARCH, Shanghai (*Director*—H. G. Earle, M.A., M.B.). Founded in 1928 under a British

Board of Trustees (The Lester Trust) by the late Henry Lester of Shanghai "for the study and teaching in the English language of medical science and surgery."

The work of the Institute is at present organized under three main divisions:

1. *Physiological Sciences*, including Physiology, Bio-chemistry and Pharmacology, under Dr. Bernard E. Read, M.S., Ph.D.
2. *Pathological Sciences*, including Bacteriology, Immunology and Parasitology, under Dr. R. Cecil Robertson, M.D., M.R.C.P., D P.H.
3. *Division of Clinical Research*, with which is associated a Dept. of Experimental Surgery, under Dr. H. Gordon Thompson, M.D., F.R.C.S

The Directorate also includes a *Dept. of Field Research* under Dr. James Maxwell, M.D., B.S., and a *Dept. of Epidemiology and Medical Statistics* now being organized by Major P. Granville Edge, O.B.E., F.S.S., who has been seconded for this service by the London School of Hygiene and Tropical Medicine.

Facilities will be provided for research in all branches of Medical Science, and it is proposed that staff shall be recruited mainly through the medium of Fellowships and Scholarships open to both Chinese and British candidates. It is also hoped that voluntary workers and holders of other Fellowships for medical research will avail themselves of the opportunities presented by the Institute.

All communications to the Director, Henry Lester Inst., 1320 Avenue Rd., Shanghai, from whom full particulars may be obtained, or the London Secretaries, Lester Trust, Empire House, St. Martin's-le-Grand, E.C.1.

## XXV

STUDENTS FROM OTHER COUNTRIES IN THE  
UNIVERSITIES AND UNIVERSITY COLLEGES OF  
GREAT BRITAIN AND IRELAND

1932-33

Compiled from returns received from all Univs. and Univ. Colls. with the exception of Trinity College, Oxford

From AFRICA 836, AMERICA 1157, ASIA 1849, EUROPE 792, THE PACIFIC 281. Grand Total 4915. The following analysis of the figures received shows the chief distribution of the students from certain countries.

AFRICA. *Egypt*.—Total 253: Birmingham 27, Leeds 10, Liverpool 25, London Colls. 90 (Univ. Coll. 17, Imperial Coll. 13, Med. School 25), Manchester 16, Edinburgh 38. *Mauritius*.—19: London Colls. 1. *Nigeria and West Africa*.—59: London Colls. 17, Edinburgh 1. *South Africa*.—492. Cambridge 73, Liverpool 22, London Colls. 2 (Univ. Coll. 19, Med. Schools 128, Schools of Music 30), Edinburgh 81.

AMERICA. *Canada and Newfoundland*.—213: Cambridge 1. London Colls. 87 (Sch. of Econ. 29, Schools of Music 14), Oxford 1. Edinburgh 24. *South America*.—68: London Colls. 32. *United States*.—705: Cambridge 60, London Colls. 210 (Univ. Coll. 35, Sch. of Econ. 1. Med. Schools 91), Oxford 141, Edinburgh 89, Glasgow 38, St. Andrew 88, Dublin 20. *West Indies*.—154: Cambridge 11, London Colls. (Med. Schools 23), Oxford 12, Edinburgh 38.

ASIA. *Burma*.—35: London Colls. 21. *Ceylon*.—101: Cambridge 18, London Colls. 69 (Univ. Coll. 12, Schools of Med. 29). *China*.—153: Cambridge 10, London Colls. 77 (Univ. Coll. 11, Sch. of Econ. 42, Med. Schools 11), Edinburgh 22. *India*.—1256: Birmingham 1. Bristol 16, Cambridge 96, Durham 17, Leeds 42, Liverpool 15, London Colls. 728 (Univ. Coll. 141, King's 49, Imperial Coll. 103, Sch. of Econ. 87, School of Oriental Studies 70, Med. Schools 155, Polytechnics 5. Manchester 51, Oxford 50, Sheffield 34, Wales 23, Edinburgh 1. Glasgow 44. *Japan*.—47. London Colls. 29 (Sch. of Econ. 1. *Palestine*.—London Colls. 53 (Sch. of Econ. 15). *Persia*.—58: London Colls. 21. *Siam*.—30.

EUROPE. *Austria*.—19. *Belgium*.—16. *Denmark*.—17. *France*.—80: London Colls. 45. *Germany*.—169: London Colls. 90 (Univ. Coll. 25, Sch. of Econ. 41). *Greece*.—22. *Holland*.—46: London Colls. 27. *Italy*.—36. *Latvia*.—21. *Norway*.—41: London Colls. 1. *Poland*.—43: London Colls. 26. *Russia*.—36: London Colls. 1. *Spain*.—19. *Sweden*.—18. *Switzerland*.—50. London Colls. 29.

THE PACIFIC. *Australia*.—177: Cambridge 32, London Colls. (Med. Schools 26, Schools of Music 19), Oxford 48. *New Zealand*.—10. Cambridge 33, London Colls. 52, Oxford 13.

ALL COUNTRIES. Birmingham 118, Bristol 32, Cambridge 4. Durham 57, Leeds 80, Liverpool 123, London Colls. 2387 (Univ. Coll. 448, King's 148, Imperial 206, Sch. of Econ. 455, Sch. of Oriental Studies 108, Bedford (Women) 32, Med. Schools 596, Schools of Music 10. Manchester 147, Oxford 472, Sheffield 62, Edinburgh 475, Glasgow 1. St. Andrews 100, Dublin 39.

## XXVI

## UNIVERSITIES OF THE UNITED STATES OF AMERICA

In the 1078 Universities, Colleges, and Professional Schools which submitted returns for 1929-30 to the United States Office of Education, there were enrolled in that year 971,584 students, of whom rather more than one-third were women. Of these institutions 246 were under public and 832 under private control; 153 were independent professional schools. Of the total number of students 47,309 were in pre-matriculation departments and 47,255 were in graduate schools. Law students numbered 41,426; medical, 21,964; dental, 8162; theological, 13,074; pharmacy, 10,906; engineering, 74,000. For full information students in this country are advised to apply to the American University Union, British Division, 1 Gordon Square, London, W.C.1; on the continent of Europe to the Paris office of the Union, 173 Boulevard St Germain. In Rome there is an American Academy at Porta San Pancrazio 29. In Belgium the Fondation Universitaire has its office at 11 rue d'Egmont, Bruxelles. In Berlin information concerning American universities may be secured from the Akademischer Austauschdienst, E.V. Schloss, or from the Amerika-Institut, Universitäts-Strasse 8. In Vienna the Austro-American Institute is located at 1 Elisabethstrasse 9. In Prague there is an American Institute. In America reference may be made to the Institute of International Education, 2 West 45th Street, New York City. This Institute published, in 1931, a *Guidebook for Foreign Students in the U.S.A.* A useful publication is *American Universities and Colleges*, edited by John Henry McCracken for the American Council on Education. Published by Williams and Wilkins Company, Baltimore, Maryland, 1932. Cost \$4.00. Pt. I. is devoted to a general explanation of the organization and operation of higher education, and Pt. II. gives separate statements of the individual colleges and universities arranged alphabetically. An Australian view of American Univ. life and organization is given in *The American University*, by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.). A description of American Univs. from the point of view of a French scientist is given in *Universities and Scientific Life in the U.S.A.*, by Prof. M. Caullery (Oxford Univ. Press, 1922, 10s. 6d.).

INTERNATIONAL HOUSE, Riverside Drive, New York City, opened Sept. 1924, is a residential club for over 500 foreign and American students. Similar houses have been opened at the Univ. of California, and at the Univ. of Chicago. The requisite funds for these three International Houses were provided by John D. Rockefeller, Jr.

THE BRITISH LIBRARY OF INFORMATION, 551 Fifth Avenue, New York, established Dec. 1919 for the convenience of Americans desiring information on British current affairs, is a branch of the News Depart-

ment of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. Wherever possible, official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly direct from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is free to the public, and information is given to all inquirers. The Library is the official agent in U.S.A. for publications of H.M. Stationery Office.

For information as to American University and College Scholarships for British students *see* Appendix XXIII. 34.

A BRITISH-AMERICAN ASSOCIATION OF PHI BETA KAPPA (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address: American University Union, 1 Gordon Sq., London, W.C.1

EXPENSES. Annual tuition fees range from a maximum of about \$500 in the large Eastern universities to a minimum of about \$50 in the State universities and small colleges of the Middle West. Living costs vary according to the size of the college or university, and the size of the town in which it is located. In general, living expenses in the South are a little less than in the Middle West, and in the Middle West a little less than in the West and East. The cost of an academic year of nine months may be reckoned at about \$1500 in the most expensive places, and \$650 in the least expensive. Transportation costs about four cents a mile.

AMERICAN DEGREES (non-professional). The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction: The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of law, medicine, etc., with few exceptions, admit undergraduates), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D.



requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning"

The Report points out that higher education in the U.S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities. The Scottish Universities Entrance Board exempts from the preliminary examination of the Scottish universities holders of certificates which admit to a regular course of study leading to a degree in Arts, Pure Science, or Medicine in any of the universities or colleges in the United States of America included in the accepted list of colleges and universities approved by the Association of American Universities.

The University of Cambridge grants exemption from the whole of the Previous examination to a student who has qualified for admission to one of the universities or colleges of the United States of America which has been approved by the Senate for the purposes of affiliation, and also to students who have passed the examinations of the American College Entrance Examination Board, provided examinations passed cover English, 3 units or an equivalent standard; Latin or Greek, 4 units or an equivalent standard; a third language, 3 units or an equivalent standard; and Mathematics, 3 units or an equivalent standard.

The University of Oxford grants senior standing to American students who hold the Bachelor of Arts degree from certain approved American universities, and junior standing to students who have pursued a course of study at such universities extending over two years, provided that the course has included the study of two languages other than English, Latin or Greek being one of these languages.

Below is given a list of 34 Univs of complex organization, usually with graduate schools and certain professional and technological schools. The following are members of the Association of American Universities:

California, Catholic Univ of America, Chicago, Clark, Columbia (including Teachers' Coll. and the International Institute), Cornell, Harvard, Illinois, Indiana, State Univ. of Iowa, Johns Hopkins, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Carolina, Northwestern, Ohio State Univ., Pennsylvania, Princeton, Stanford, Texas, Univ. of Virginia, Washington (Missouri), Wisconsin, Yale.

In addition, Boston, New York, Western Reserve, Cincinnati, Colorado, Pittsburgh, Washington (Seattle)

Full information, including particulars of equipment and research funds, library facilities, and facilities for publication of research results, is given in *Opportunities for Study at American Graduate Schools*, Bulletin, 1921, No. 6, of the United States Bureau of Education.

A complete list of accredited Higher Institutions can be consulted at the Universities Bureau, or can be obtained from the American Council on Education, 26 Jackson Place, Washington, D.C.

## XXVII

## ANGLO-AMERICAN RELATIONS

## PROFESSORSHIPS

GEORGE WATSON LECTURESHIP. Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each year's course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This and the subsequent lectures have been published in England by the Cambridge Univ. Press. Lecturer, 1932 : The Hon. James M. Beck. The Foundation is administered by the Sulgrave Manor Board, 1 Central Buildings, Westminster, London, S.W.1.

GEORGE EASTMAN VISITING PROFESSORSHIP, tenable at Oxford Univ. The holder shall be, at the time of his election, a citizen of the U.S.A., eminent in teaching or research, and he shall give instruction in the subject of study in respect of which he is appointed. Appointment—not less than 1 nor more than 5 yrs., but re-eligible.

HAROLD VYVYAN HARMSWORTH PROFESSORSHIP OF AMERICAN HISTORY, tenable at Oxford Univ. The Prof. shall be, at the time of his election, a citizen of the U.S.A. Appointment—5 yrs. from date of election, but re-eligible. Salary, £1200 p.a. Present appointment: R. McNutt McElroy, M.A., Fellow of Queen's, for 10 yrs. from July 1925.

COMMONWEALTH FUND PROFESSORSHIP OF AMERICAN HISTORY, tenable at the Univ. of London, University College. The Commonwealth Fund of New York has appropriated a sum of \$214,500 to endow a Department of American History at University College, London, including a professorship and assistants. Present holder: Prof. H. Hale Bellot, M.A. A sum of £4866, raised in London and New York, will be available for a library of American History at the College, and a library on the same subject at the Institute of Historical Research, Malet Street, London, W.C.1.

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The American Universities are constantly inviting distinguished British scholars to lecture on British History and institutions, so that the need for the establishment of special foundations for the purpose has not been felt in the United States.

## XXVIII

## INTERNATIONAL FEDERATIONS

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (formerly International Research Council). Gen. Secretary—Sir Henry Lyons, F.R.S., Royal Society, Burlington House, London, W.1. This body was constituted in 1919, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Chemistry, Physics, Radio-Telegraphy, Biological Sciences, and Geography.

UNION ACADÉMIQUE INTERNATIONALE (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political, and Social Science). The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres. 19 nations of Europe, Asia, and America have each 2 representatives nominated by their Academies. The annual General Assembly is held at Brussels towards the end of May. President for 1933: M. C. van Vollenhoven (Leiden). Administrative Secretariat, Palais des Académies, Brussels.

MODERN HUMANITIES RESEARCH ASSOCIATION, founded 1918, for the encouragement of advanced study in Modern Languages and Literatures by co-operation. Has 62 correspondents and about 1000 members. Press organ: *Modern Language Review*, quarterly, 7s. Hon. Secy.: Prof Wm. C. Atkinson, The University, Glasgow. Sub-Secy. for America: Dr. L. R. Bradley, 100 Washington Square East, New York City, U.S.A.

INTERNATIONAL INSTITUTE OF INTELLECTUAL CO-OPERATION, 2 rue de Montpensier, Paris. *Director*: M. Henri Bonnet. Since its inauguration in 1925 the Institute has served as the executive organ of the League of Nations International Committee on Intellectual Co-operation.

*Aims.* To promote the exchange of ideas and personal contact among intellectual workers in all countries. To further and facilitate co-operation among institutions concerned with intellectual problems; to aid in the spread of knowledge; to study in common certain problems of international import; to contribute to the international protection of intellectual rights; and encourage instruction in the principles of the League of Nations.

The Institute has endeavoured to assist the international co-ordination of intellectual work:

(a) By *Meetings* of Directors of Higher Education; of Directors of National University Offices; of Institutions for the Scientific Study of International Relations; of Representatives of International Student Organizations; of Directors of International School Correspondence

Bureaux, of experts on questions relating to the educational museums; of experts on the educational aspects of broadcasting; of experts on recorded music; of representatives of the commercial departments of casting workshops; of experts on the preservation of works of art; of the experts convened by the Institute's International Museums Office; of experts for the International Centre for Institutes of Art and Archaeology; of the Bureau of the International Committee on Popular Arts; of experts representing scientific museums; of experts on the unification of scientific terminology; of library experts; of archivists; of experts on the international bibliography of translations; of representatives of legal institutions dealing specially with intellectual rights and the legal problems connected therewith, and of experts on the revision of school text-books.

(b) *By Publications on*: Holiday Courses in Europe (yearly); University Exchanges in Europe; International Student Associations; National Research Institutes abroad; the Reorganization of Education in China; the Revision of School Text-books; Institutions for the Scientific Study of International Relations; Reference Centres for International Affairs; the State and Economic Life; the International Co-ordination of Libraries; National Information Services, Loan Systems and International Exchanges; Index Bibliographicus; International Code of Abbreviations for Titles of Periodicals; the International Protection of Copyright, Rights of the Scientist; Collections of Photographs of Works of Art; Museums of Different Countries.

(c) *By means of its Reviews including*: "Bulletin de la co-opération intellectuelle" (yearly subscription: France, 35 Fr. frs.; other countries, 45 Fr. frs.); "Mouseion" (yearly subscription: France, 120 Fr. frs.; other countries, 150 Fr. frs.), including the monthly Bulletin, "Musées et Monuments."

The following publications are of special interest to the British Empire: *Information Bulletin of the League of Nations Intellectual Co-operation Organization* (ann. subn. Brit. Empire, 10s.); *Information Series on Intellectual Co-operation*—Vol. I, *School Broadcasting*, Vol. II, on *Foreign Travel and Exchanges with School Children*; *Index Translationum* (Internat. Bibliography of Translations), quarterly, ann. subn. Brit. Empire, 7s.; *An International Series of Open Letters*—Vol. I, *A League of Minds*, Vol. II, *Law and Violence, an Exchange of Letters between Albert Einstein and Sigmund Freud*; "Conversations" Series—Vol. I, "Conversations" on Goethe.

Some 40 countries have appointed National Committees on Intellectual Co-operation to serve as correspondents with the International Committee on Intellectual Co-operation and the International Institute.

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czecho-Slovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries which had, at that time, no national unions. Congresses have been held as follows: At Warsaw (second Congress), Sept. 1924, Copenhagen, 1925, Prague, 1926, Rome, 1927, Paris, 1928, Buda-

pest, 1929, Brussels, 1930, Riga, Aug 1932, St. Moritz, Jan. 1933. The C.I.E. now includes the Nat. Unions of 28 countries, 2 free members and 1 associate member. The number of students represented is about 500,000. It organized the Internat. Univ Games at Rome in 1927, at Paris in 1928, at Davos and Darmstadt in 1930. It is organizing winter games at Bardonecchia in 1933 and summer games at Corino. It is also collaborating in the building of an Internat. Univ Sanatorium at Leysin, Switzerland. The Confederation aims at promoting friendship between students and student bodies throughout the world, and the study of international questions relative to higher education and the conditions of student life. President—D. Follows, 3 Endsleigh St., London, W.C.1; Vice-President—M. Schneebeli, Zollikon, Zurich; General Secretary—R. Motz, 22 Place de Brouckère, Brussels.

The INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1919 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in 36 countries. The Federation assists travelling members by providing introductions, and by the establishment of club-houses or other special facilities for accommodation in the chief centres of intellectual life. It provides travelling fellowships for women graduates (v. Appendix XXIII), and promotes the exchange of university and secondary school teachers, librarians, museum curators, archivists, etc., between different countries. Tours of special scientific or other interest are arranged in different countries. Officers (1932-36) *President*, Prof. Johanna Westerdijk, Univs. of Amsterdam and Utrecht, *Vice-Presidents*. Mme. Octave Monod, Paris; Lektor S. Adamowicz, Warsaw; Prof. E. Patzelt, Univ. of Vienna, *Treasurer*, Dean Bernice Brown, Radcliffe Coll., Cambridge, Mass.; *Secretary*, Miss Theodora Bosanquet, Crosby Hall, Cheyne Walk, London, S.W.3. International Conferences are held triennially, and International Councils annually. The last Conference was held in July 1932 at Edinburgh. *Crosby Hall* was opened by the British Federation of Univ Women, as a London residence for members of the Internat. Federation, at Easter 1927. The residence is intended primarily for graduate students carrying on research or other advanced work in London. Application for accommodation should be made to the Warden, Crosby Hall, London, S.W.3.

THE WORLD'S STUDENT CHRISTIAN FEDERATION is a federation of the National Student Christian movements of 24 countries, having relations with students in 16 countries where there are not yet any regular national movements. It was founded at Vadstena, Sweden, in 1895, by five students' organizations from N. America, Gt. Britain, Germany, and Scandinavia. It endeavours to unite, and to promote mutual relations among, these movements throughout the world, and to collect and distribute information about the conditions of students in all lands from the religious and other points of view. It organizes international student conferences for the discussion of burning problems, religious, racial, educational, organizational. Publication: *The Student*

*World* (quarterly). Headquarters: 13 rue Calvin, Geneva, Switzerland. Cable Code. Missions Code. General Secretary: Dr. W. A. Visser 't Hooft

The INTERNATIONAL STUDENT SERVICE is an organization which seeks to promote the ideal of the threefold function of the Univ as a centre of the national culture, as the cultural interpreter of peoples to each other, and as the expression of the essential unity of civilization. It seeks this ideal by practical co-operation nationally and internationally. It admits of no distinction of race, nationality, or religion. It appeals to student solidarity to give help in cases where the national univ. life has broken down. It attempts to make univ. education available to the talented of all classes by developing student co-operative methods. It essays to bring into closer contact the Univs. and other sections of the national life. By conferences and publications it tries to contribute to the evolution of the ideal univ., to mutual understanding of cultures and the removal of the many hostilities which disturb present-day univ. life.

The International Headquarters are at 13 and 14 rue Calvin, Geneva (Switzerland).

*Publications*: Quarterly: *I. S. S. Annals*, News Sheet entitled *More Facts* (monthly); Annual Reports, Conference Reports, occasional papers.

The STUDENT CHRISTIAN MOVEMENT of Great Britain and Ireland is the British Branch of the World's Student Christian Federation. Publications: *The Student Movement* (monthly during term). Offices: Annandale, North End Road, Golders Green, London, N.W. 11.

INTER-UNIVERSITY JEWISH FEDERATION of Gt. Britain and Ireland (federating all Jewish Univ. Societies in the U.K. and Ireland). Hon. Sec.: D. Blank, LL.B., 5 Langford Rd., Heaton Chapel, nr. Manchester.

The UNIVERSITIES' LIBRARY FOR CENTRAL EUROPE was established towards the end of 1920 in order to co-ordinate and consolidate the work of securing (by gifts, exchange, and purchase) British books, journals, etc., for students, teachers, and libraries in the Universities of Central Europe. In conjunction with the League of Nations it has undertaken to accept literature from other countries for distribution anywhere in the United Kingdom, and, similarly, to distribute all over Central Europe books and periodicals received from Universities and learned societies in Great Britain. In 1926 it added to its other functions that of a clearing-house for reception and distribution of scientific books and periodicals from and between individuals and institutions in Great Britain and Ireland. Hon. Sec.: C. Fuller, B.A., Assistant Librarian, London School of Economics, Houghton St., London, W.C. 2.

## XXIX

## BUREAUX OF INFORMATION

Among foreign organizations useful to British students the following may be mentioned :

Austria—(1) Kursorganisation der Wiener medizinischen Fakultät, Vienna ix. 1, Porzellang. 22, from which programmes of medical courses for foreigners and others can be obtained ; (2) Minerva Buro, Vienna viii., Schöllergasse 22 (information about board and lodging) ; (3) Wiener Internat. Hochschul Kurse, Vienna ix., Boltzmannngasse 16 ; (4) Austro-American Institute of Education, 1 Elisabethstrasse 9, Vienna. (Branch of the Institute of International Education, New York.)

Belgium—Fondation Universitaire, 11 rue d'Egmont, Brussels. Director : M Jean Willems.

Denmark—Anglo-Danish Students' Bureau, 88a Gower St., London, W.C.1. Director : Mr. J. H. Helweg, Cand. Mag.

Egypt—Educational Mission in England, 39 Victoria St., Westminster, London, S.W.1.

France—Office National des Universités et Écoles Françaises, 96 Boulevard Raspail, Paris. Mons. Petit-Dutaillis, Director ; Mons. A. Desclos, Asst. Dir.

London Branch : 1-7 Cromwell Gardens, London, S.W.7 Mons. D. Saurat, D. ès L., Director ; Mons. J. Manchon, Director of Studies ; Mons. L. E. Genissieux, Asst. Dir. and Sec. The Office published in 1925 a comprehensive Handbook giving information about the French universities and the entire system of organization of education in France. Price 5s. The French Ministry of Public Instruction announced on Sept. 17, 1926, the admission to equivalence with the " baccalauréat de l'enseignement secondaire français " of every certificate of matriculation issued by one of the Universities of the United Kingdom and every diploma accompanied by an attestation of the Universities Bureau of the British Empire certifying that the diploma entitles its holder to admission as a regular student to degree courses in one of those universities.

American University Union (Paris branch of Institute of International Education, New York), 173 Boulevard St. Germain, Paris.

Germany—Deutsches Institut für Ausländer, Universität Berlin, C 2 Universitätsgebäude. Publishes, monthly, *Mitteilungen*.

Deutscher Akademische Austauschdienst, Berlin, C2, Schloss. Director : Dr. Morsbach. Its object is to further relations between German and English Univs. and to promote exchanges of students between the two countries.

London Branch: Anglo-German Academic Bureau, 58 Gordon Square, London, W.C.1. Director : Dr. jur. E. Deissmann.

There is an Akademisches Auskunftsam (Information Bureau) attached to most German Universities.

Holland—Netherlands Committee for International Academic Relations, 33 Wasstraat, Leyden.

Italy—Istituto Interuniversitario Italiano, R. Palazzo Venezia, N. 118, Roma. [There is a *British Institute* at Florence, Palazzo Antinori, Piazza Antinori 3, comprising a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library, and the organizing of lectures, concerts, etc. Its Higher Diploma is of the standard of the Doctorate of an Italian Univ. Director: Dr. H. Goad.]

Norway—Studie-Oplysningskontoret, Universitet, Oslo.

Spain—Centro de Estudios Historicos, Almagro 26, Madrid.

Switzerland—Office Central Universitaire Suisse, rue de l'Hôpital 30, Berne. Director: Dr. P. Fluckiger.

U.S.A.—Institute of International Education, 2 West 45th Street, New York City. Director: Dr. Stephen Duggan.

London Branch: American University Union, 1 Gordon Square, London, W.C.1. Director: Mr. Willard Connely, A.M., M.A.

### XXX

### SHORT BIBLIOGRAPHY

1909. *Principles and Methods of University Reform*. By Lord Curzon of Kedleston [deals with Oxford University]. Oxford. Clarendon Press. 2s. 6d. net.

1910. *Universities and National Life*. By Viscount Haldane. London. John Murray. 3s. 6d. net.

1911. *The Meaning of a University*. By Sir Walter Raleigh. Oxford. Clarendon Press. 1s. net.

1921. *Universities and their Freedom*. By W. M. Childs, M.A. London. Arthur L. Humphreys. 2s.

1923. *University Extension: A Survey of Fifty Years, 1873-1923*. By W. H. Draper. Cambridge University Press. 3s. 6d.

1923. *The Older Universities of England, Oxford, and Cambridge*. By Albert Mansbridge. Based on a course of Lectures delivered on the Lowell Foundation, Boston, Mass., March 1922. London. Longmans Green & Co. 7s. 6d.

1924. *The Universities and Educational Systems of the British Empire*. By Prof. A. P. Newton. [Vol. X. *The British Empire: A Survey*, in 12 vols.] London. W. Collins, Sons, & Co., Ltd. 6s.



1927. *A History of the University of Oxford*. Vol. III. *Modern Oxford*. By Sir Charles E. Mallet. London. Methuen & Co. 21s. net.

1927 and 1930. *The Degrees and Hoods of the World's Universities and Colleges*. By Frank W. Haycraft. 3rd edn., 4s. 6d.; Supplement, 1930, 2s. 3d. London and Cheshunt. The Cheshunt Press, Ltd.

1928. *Students' Life and Work in the University of Cambridge*. By Karl Breul. 3rd edn. Cambridge. Bowes & Bowes. 2s. net.

1928. *The New Universities*. By H. G. G. Herklots. London. Ernest Benn, Ltd. 6s.

1928. *On the Scope and Nature of University Education*. By J. H. Newman. London. J. M. Dent. 2s. net [Originally published in 1852.]

1929. *England*. By Wilhelm Dibelius. (Book IV. *Education*) [First pubd. in German in 1922.] London. Jonathan Cape. 15s.

1930. *The Life of a Modern University*. By Edwin Barker (and others). London. Student Christian Movement Press. 2s.

1930. *Universities—American, English, German*. By Abraham Flexner. Oxford University Press. 16s.

1930. *The British Universities*. By Sir Charles Grant Robertson, M.A., C.V.O. London. Ernest Benn, Ltd. 6d.

1931. *Universities in Great Britain: Their Position and their Problems*. By Ernest Barker, Litt D., D.Litt, LL.D. London. Student Christian Movement Press. 3s. 6d.

1931. *The Government of Oxford*. Oxford University Press. 3s. 6d.

1931. *Select Discourses from The Idea of a University*. By John Henry Newman. Edited by May Yardley, B.A. (Landmarks in the History of Education Series.) Cambridge University Press. 5s. [The original work (1852) is out of print.]

1932. *The University in a Changing World*. A Symposium. Edited by Walter M. Kotschnig and Elined Prys. Oxford University Press. London. Humphrey Milford. 8s. 6d.

1913. *Royal Commission on the University of London. Final Report*. London. H.M. Stationery Office. [Cd. 6717] 2s.

1918. *Royal Commission on the University of Wales. Final Report*. London. H.M. Stationery Office. [Cd. 8991.] 1s.

1920. *Royal Commission on the University of Dublin (Trinity College). Report*. London. H.M. Stationery Office. [Cmd. 1078.] 4d. net.

1922. *Royal Commission on Oxford and Cambridge Universities. Final Report*. London. H.M. Stationery Office. [Cmd. 1588.] 6s. Out of print.

*University Grants Committee. Returns from Universities and University Colleges in Receipt of Treasury Grant*. (Published annually.) 1930–31. London. H.M. Stationery Office. 1s. 6d. net.

*Congress of Universities of the Empire: Report of Proceedings*. 1st, 1912, Universities Bureau, 7s. 6d.; 2nd, 1921, 7s. 6d.; 3rd, 1926,

7s. 6d. ; 4th, 1931, 21s. 1921 onwards pubd. by G. Bell & Sons, Ltd., London.

1910-20. *Cambridge University Historical Register to the Year 1910*. 20s. ; Supplement, 1911-20, 8s 6d. Cambridge University Press.

*The Student's Handbook to the University and Colleges of Cambridge*. 31st edn. Revised to 30 June 1932. Cambridge University Press. 7s. 6d. net.

*Handbook to the University of Oxford*. 1932. Oxford. Clarendon Press. 5s. net.

*Students' Handbooks* are issued by a number of Universities, University Colleges, and University Students' Unions, including the following: Exeter; Leeds; Liverpool; London—University College and King's College; Nottingham; Wales; Aberdeen; Edinburgh; Glasgow.

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*The German Educational System.* A Survey submitted by the Deutsche Pädagogische Auslandstelle, Berlin W 35, Potsdamerstrasse 120, and the Deutscher Akademischer Austauschdienst E.V., Berlin C 2, Schloss. 1932.

*Oversea Settlement Department. Professional Handbook.* Part I. Barristers and Solicitors, Notaries, Public; II. Chemists and Druggists, Dentists, Nurses; III. Dentists, Physicians and Surgeons, Veterinary Surgeons; IV. Civil Service, Clerks, Stenographers, Typists and Accountants, Commercial Travellers; V. Teachers and Governesses; VI. Architects and Engineers; VII. Auctioneers, Surveyors, Police.

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